

The Echinoderms Newsletter¹

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This Newsletter exceeds 80 pages in length. We should have issued it many months ago, but numerous other duties distracted us. We calculate that every month's delay adds a further six pages to the Newsletter, and we're thankful now that we didn't delay for a further six months!

Within the next two months or so we will send you a copy of our complete mailing list (now reduced to around 500 names).

John Lawrence generously contributed several sections to this Newsletter: the information on the 1981 Conference, notice of forthcoming books, list of papers from All-Union Echinoderm Colloquium at Tbilisi, 1979, and a list of recent Ph.D. and Masters' dissertations. David Nichols contributed a report on a discussion held at the European Echinoderm Colloquium, 1979. R.U. Gooding sent us some recipes for sea urchins, Barbados style.

Production of the Newsletter would not have been possible without the help of Kevin Baird, Mary Parrish and Cynthia Gust. We are very grateful to them.

David L. Pawson
Maureen E. Downey

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¹The Echinoderms Newsletter is not intended to be a part of the scientific literature, and should not be cited, abstracted or reprinted as a published document.

A new catalogue of type-specimens

Catherine H. Felton and Robert M. Woollacott of the Museum of Comparative Zoology, Harvard University, Cambridge Massachusetts 02138, U.S.A. have prepared a catalogue of the type-specimens of echinoderms in the collections of the Museum of Comparative Zoology. The catalog comprises xix + 172 pages, and gives locality information for each species listed, together with information on the kind of type-material represented (Holotype, Paratype, Lectotype, etc). It is available free of charge to institutions with major echinoderm collections, and at cost (\$7.00) to individuals in the U.S.A. and elsewhere. Please address enquiries to Dr. Woollacott, and make checks payable to "Museum of Comparative Zoology".

SEA EGG DISHES

(sent by R.U. Gooding)

(by Carmeta Fraser, SUNDAY ADVOCATE-NEWS, September 11, 1977)

SEA EGG AND BREADFRUIT CASSEROLE

METHOD:

Sea Egg from two shells
cooked and well seasoned.

2 lbs. cooked breadfruit
(sliced)
2 large onions
1 large sweet pepper chopped
1 cz. flour
1 oz. margarine
1 pint vegetable stock
2 ozs. grated cheese
salt and pepper to taste.

Grease a casserole or pie dish.
Place some slices of breadfruit
on the bottom, then sea egg,
onion slices and sweet pepper.
Continue this with sea egg, onion
slices and sweet pepper. Continue
this with sea egg mixture at the
top. Make a white sauce by blending the margarine, flour and stock.
Stir until thick, and pour over
the dish. Sprinkle on the grated
cheese and bake in a moderate
oven 350 degrees for 20-25 min.
Serves about 6.

SEA EGG BURGER

METHOD:

Sea Egg from 2 shells cooked and cleaned
1 medium size onion chopped
2 tbs. flour
2 tsp. lime juice
A piece of hot green pepper chopped.
2 tbs. tomato detchup or pulp milk to mix
salt and peper to taste
Flour and breadcrumbs
Oil for frying
Cucumber pickle for garnish
Hot toasted buns.

Melt the margarine in a pan. Add Sea Egg and onion stirring until Sea Egg is lightly browned. Mix salt other seasonings and flour together in a mixing bowl. Sitr in the Sea Egg mixture along with other ingredients. Form into flat cakes and coat in breadcrumbs and flour mixture. Fry lightly in hot fat. Serve on hot toasted buns. Garnish with cucumber pickle.

SEA EGG PUDDING

METHOD:

Sea Egg from 2 shells (raw)
3 ozs finely chopped suet or margarine
2 ozs breadcrumbs
A piece red hot pepper
2 tsp. lime juice
1 medium size onion chopped
1 tsp. finely chopped parsley
salt and pepper to taste
2 eggs
1 pint milk or vegetable stock

Grease well a mould or pudding basin.
Chop the Sea Egg finely add to the suet, breadcrumbs, lime juice and seasonings and mix well.
Beat the eggs slightly, add the milk or stock and stir into the mixture.
Put into the mould or basin. Cover with greaseproof paper and steam gently for about $1\frac{1}{4}$ hours.
Approximately 4-5 servings.

INTERNATIONAL ECHINODERM CONFERENCE - 1981

The next International Echinoderm Conference will be held September 14-18, 1981, in Tampa, Florida. Dr. John M. Lawrence, Department of Biology, University of South Florida, Tampa, Florida 33620, U.S.A. will be organizing the meeting. Other members of the Organizing Committee are: Andrew Campbell (United Kingdom), Arthur Giese (U.S.A., Honorary Chairman), Alain Guille (France), Michel Jangoux (Belgium), Haruo Kanatani (Japan), Yulin Liao (People's Republic of China), Gena Manchenko (U.S.S.R.), David Pawson (U.S.A., Co-Chairman), Frank Rowe (Australia), Tine Valentincic (Yugoslavia), and Peter Voogt (The Netherlands). The deadline for receiving abstracts for papers to be presented at the meeting is May 1, 1981. Individuals who desire to receive the second notice and information about the meeting should notify Dr. Lawrence.

FORTHCOMING BOOKS

Echinoderms -- present and past. Proceedings of a Colloquium, Brussels, September 1979. Dr. Michel Jangoux (Editor). Balkema Books, P.O. Box 1675, Rotterdam, The Netherlands. Contains about 100 papers and reports on all aspects of echinoderm biology.

Echinoderm nutrition. Michel Jangoux and John M. Lawrence (Editors). Balkema Books. In preparation. The book will include chapters on food perception; food and feeding mechanisms, Crinozoa (D. Meyer), Holothuroidea (C. Massin), Echinoidea (C. de Ridder, J. Lawrence, M. Jangoux), Asteroidea (M. Jangoux), Ophiuroidea (G. Warner); structure and function of digestive organs, Crinozoa (M. Jangoux), Holothuroidea (J.-P. Feral, C. Massin), Echinoidea (C. de Ridder, M. Jangoux), Asterozoa (M. Jangoux); digestion (J. Lawrence); epithelial absorption (D. Bamford); utilization of nutrients by post-metamorphic echinoderms (J. Lawrence); translocation of nutrients (J. Ferguson); intermediary metabolism of nutrition (R. Ellington); steroid metabolism (P. Voogt); excretion (M. Jangoux); nutrition of gametes (C. Walker); nutrition of embryos (G. Cognetti); effect of feeding on the environment, Holothuroidea (C. Massin), Echinoidea (J. Lawrence, P. Sammarco), Asteroidea (B. Menge).

An Echinoderm Society? An Echinoderm Journal?

Report on a discussion at the European Echinoderm Colloquium, Brussels: 2nd to 8th September, 1979.

by David Nichols

Members attending the highly successful Colloquium at the Universite Libre de Bruxelles were again given the opportunity to express opinions on the desirability of a more formal structure to bring together echinoderm workers throughout the world. As with previous discussions along these lines, the general feeling that emerged was that the somewhat unofficial way in which we get together every few years works perfectly well, and any more formal organisation might cause a lack of spontaneity, and might become too cumbersome and restrictive. So no recommendation for the formation of a society of echinoderm workers was made.

The second matter raised concerned publications, and the meeting discussed several aspects. The feature of our organisation that all members felt needed to be protected was this Newsletter, which not only keeps workers in touch with each other, but allows an exchange of information, views, requests, etc., that a more formal publication is unlikely to fulfil. Grateful thanks were expressed to Drs. David Pawson and Maureen Downey, on whom the principal work in getting out the Newsletter has fallen since its inception, and also the meeting asked that its appreciation be expressed to the Smithsonian Institution for bearing the cost of production and distribution. It was mentioned that Pawson and Downey were anxious to find another Editor, and this matter would be explored between now and the next Conference in Tampa in 1981.

So far as a possible echinoderm periodical is concerned, the meeting felt that the financial climate in the scientific world was not conducive to such a development at present, and in any case some members expressed the view that there was a positive advantage in spreading echinodermological papers among the general biological literature so that they could be more widely noticed. The conclusion was that the question of a special journal should not be proceeded with.

On the other hand, there is an excellent case for gathering papers together for a specific purpose, such as publication of the proceedings of a conference, or papers on a theme initiated by an individual. Papers read to the Brussels Colloquium would be published in this way, and Dr. Michel Jangoux, the Convener, mentioned that the publisher he has retained for this purpose, A.A. Balkema of Rotterdam, was prepared to consider future volumes in the same way.

During the discussion, Professor Norman Millott raised the point that a new edition, or successor to, R.A. Boolootian's Physiology of Echinodermata (Wiley Interscience, 1966), which had originated from the first ever international echinoderm symposium in Washington D.C. in 1963, would be a most useful addition to the scientific literature, and members were asked to discuss the matter informally between now and the Tampa Conference.

Jangoux gave a brief summary of the publication of papers from the Brussels Colloquium. He will chair an Editorial Board consisting of Lawrence (Tampa, Florida), Guille (Paris), Rose (Bedford College, London) and Nichols (Exeter). The refereeing and editorial procedures will be completed by February, 1980 and the volume will be published by May/June, 1980. The title of the volume will be Echinoderms - Present and Past: Proceedings of a Colloquium at the University of Brussels, and will be dedicated to the memory of Lucien Cuenot.

Proceedings of the All-Union Echinoderm Colloquium, Tbilisi, 1979

- Arendt, J.A., S.V. Rognov. About right-left side of Echinodermata.
- Belezev, G.M. Propagation and origin of Myriotrochidae (Holothuroidea: Apoda) and ways of forming deep underwater groups of animals.
- Belaeva, H.G. Geometry, orientation, terms, structure formula and reconstruction of the skeleton of fossil starfish.
- Bobrova, T.F. Ultrastructure of the muscle of starfish ambulacral legs.
- Brekov, V.A. The growth of the sea urchin Strongylocentrotus nudus Agassiz in the Vostok Bay of the Sea of Japan.
- Budin, J.N. Sea of Japan. The significance of test form in the systematics of sand collars.
- Varaksin, A.A. The development of the gonad in the sea urchin Strongylocentrotus nudus.
- Varaksina, G.S. The auxiliary cells in the oogenesis of the sea urchin.
- Vorobjev, V.A. The spread, dynamic, and manner of appearance of polyploid cells and their significance in the stomach of starfish.
- Ginda, D.A. Fossil crinoids in the lower Paleozoic of the south-west of the eastern Europe platform.
- Gnezdilova, S.M., B.C. Vasileva. Temperature dependence of the reproductive cycle of the sea urchins Strongylocentrotus in Peter the Great Bay.
- Gongadze, G.S. Paleogenic Echinoidea of Georgia.
- Gruzov, E.M., S.N. Yakovev. The yearly gonadal cycle of the Antarctic sea urchin Sterechnus neumayeri (Meissner).
- Dautov, S. Sh. The change of behavior reactions during development of larvae of Asteriidae.
- Dzjuba, S.M. Some peculiarity of deep underwater sea urchin Pourtalesia heptneri oogenesis.
- Evdokimov, V.V., U.S. Hotimchenko. The regulation of the reproductive processes of the sea urchin Strongylocentrotus nudus.
- V.V. Sova, U.P. Chugnev. Plasma membrane protein biosynthesis in larval cells of sea urchins during the early stages of development.
- Solovjev, A.N. Anical field evolution in spatangoids.
- Stukalina, G.A. Systematics of Crinoidea in Ordovik, Silurian, and lower Devonian in USSR.
- L.L. Terentjev, H.A. Terentjeva, V.A. Rasscasov. Comparative investigation on DNA-polymerase from sea urchin larvae.
- N.K. Utkina, O.B. Maksinov. Hinoid pigments and phylogeny of Echinodermata.

- Shcepin, V.V. Free amino acids in the gonad of the sea urchin Strongylocentrotus nudus.
- Endelman, L.G. Historical-morphological analysis of the sea urchin Holactypoida.
- Yakolev, S.N. The annual gonad cycle of the sea urchin Echinocardium cordatum in the Sea of Japan.
- Gizmundsky, A.V., E.P. Serteeva, V.S. Vasileva. Temperature adaptation of some common species in Peter the Great Bay, Sea of Japan.
- Isaeva, V.V. Cell interaction during morphogenesis of sea urchin larval skeleton.
- Kasyanov, V.L. Reproductive cycle of starfish Aphelasterias japonica.
- Klimova, V.L. The distribution of Ophiura sarsi and O. sarsi vadicola in Peter the Great Bay, Sea of Japan.
- Kolcova, E.M., O.B. Macsimov. Hinoïd pigments of the sea urchin.
- Korotchenko, O.D., T.Y. Mitchenko, S.V. Isay. Protaglandins of Echinodermata.
- Levin, V.S., E.T. Voronova. Assimilation of bacterial food by Far East sea cucumbers.
- Levina, F.B., V.A. Stonic, G.B. Elyakov. Glycoside biosynthesis in the starfish Patiria pectinifera.
- Litvinova, N.M. Some aspects of feeding ecology of Ophiura.
- Mamrova, E.C. Reproductive cycle of the starfish Distolasterias nipon.
- G.P. Manchenko, A.T. Pudovkin, O.L. Serov. The degree of genetic variability in sea urchin and starfish populations.
- Melikov, O.G. About the phylogeny of the family Seumaster in North Kavkas.
- Militsina, V.A. About Cupressocrinitidae from Devonian soil of the north and middle Urals.
- Mironov, A.N.. Observation of Echinodermata during submergence in "Paises."
- Moskvin, M.M. Sea urchin Coraster and Ornithaster in USSR.
- Moskvin, M.M., V.V. Shimanskaja. The strange group of sea urchin Echinocorya from Dania soil level.
- Polodgihina, A.T. Crinoidea from high and middle soil level of the Devonian in north-east Pribalhashja.
- T.S. Smirnov. Ophiuroidea (Echinodermata) from macrophyte rhizoids in the south-west Atlantic Ocean.
- T.S. Smirnov. About the family Theodoria (Ophiuroidea, Echinodermata).

Suggestions, requests, etc.

Ausich - requests reprints on fossil and living holothurians

Baker - requests that systematists working with the genus Amphiura get together sometime (by mail initially) to discuss the group. In the meantime perhaps there could be a moritorium on new species.

Berger - requests records of presence or absence of ciliate Protozoa from any echinoid species from the Southern Hemisphere, especially southern South America, South Africa and Australasia.

Bauer - requests any information on numbers of Diadema and habitat observed below 20 m.

Branstrator - would like to have dried specimens of non-North American asteroids and deep-sea asteroids.

Brower and Veinus - are there any data available on the strength of ligament and muscle fibers in living crinoids? What is the ontogenetic relationship between total volume and volume of tissue in living crinoids? Is this constant throughout post-larval life or does it vary, and if so how? What is the relationship between total volume, effective weight and weight in air during post-larval ontogeny of living crinoids? Are these constant? In other words is the density of a living crinoid constant throughout the post-larval ontogeny?

Caffi - seeks information on asexual reproduction of holothurians.

Challis - would like to have a whole, dry test of Recent Lovenia with or without spines.

Crump - would appreciate any records of Asterina gibbosa or A. burtoni from Israel.

Cunningham - would like to know dates and locations of any observations of brooding in amphiurid brittle stars; also whether brooding live young and broadcasting gametes have been observed as alternate strategies in the same species.

Dafni - seeks information on polychromatism in Tripneustes gratilla and previous works on polychromatism in echinoids in general. Also wants information on deformations in echinoids due to environmental factors.

Doty - would be interested in obtaining English translations of Japanese and Chinese papers relative to sea cucumber culturing.

Ellington - requests any observations of tolerances of holothurians to exposure to hypoxic or anoxic conditions.

Fay - recent revisions of the Pennsylvanian-Permian contact now place the Wolfcampian in the Pennsylvanian System. Thus, Wolfcampian echinoderms should be classed as late Pennsylvanian in age.

Feder - wishes to correspond with any biologists working on Ctenodiscus crispatus, Ophiura spp. and sea stars of northern waters. Special interest in feeding biology of Ctenodiscus.

Fernandez - requests any information on harvesting of tropical Atlantic holothurians for beche-de-mer.

Ferrand - would like to receive information and/or reprints of papers on lysosomal enzymes of yolk (histochemistry, biochemistry) and their participation in development of embryos.

Frankel - would like to have information on Phyllacanthus feeding habits, encrusted radioles, etc., and on echinoderm skeletal debris in sediments.

Franzen - in 1878 N.P. Angelin's monumental work on Silurian Crinoidea from Gotland, the Iconographia Crinoideorum in stratis Sueciae siluricis fossilium, was published. It contains 173 species referred by Angelin to 43 genera. Unfortunately, Angelin did not live to publish his own monograph, which may explain some of the shortcomings of the Iconographia. The Latin diagnoses are extremely brief; there are no descriptions; the illustrations are often misleading, specimens having been either heavily restored (not always correctly), generalized, or composed of several individuals, in some cases clearly belonging to different genera. What makes matters even worse is that hardly any of Angelin's type material remains in the Museum of Natural History in Stockholm. It is known that Angelin sold fossil material (even types) in order to complete the collections of the museum. I would be extremely grateful for any information on the whereabouts of the Angelin crinoids, the location of collections of Silurian crinoids from Gotland, Sweden, and the location of Gotland specimens not now in museum collections, particularly specimens belonging to the genus Carpocrinus (syn. Pionocrinus, Habrocrinus).

Gage - in connection with a longstanding interest in montacutid bivalves commensal with spatangoid urchins and other echinoderms, would be grateful for any records or unwanted material, and would be particularly interested in bivalve material from deep sea pourtalesiid urchins.

Glynn - would appreciate information on marking or tagging Acanthaster. Various vital stains and plastic fish tags have been tried without success.

Haude - would like to contact people investigating the body wall of chiridotid holothurians.

Hawkins - would like information on energetics of tropical sea urchins.

Hamada - would greatly appreciate information on specifics for the culturing of a sea urchin species of the Gulf coast of the U.S.A.

Hotchkiss - wishes to purchase all or parts of Mortensen's Monograph of the Echinoidea; wishes to receive abnormal starfish for dissection; wishes to receive Meyenaster gelatinosus for dissection.

Kikuchi - would like to have information on growth rates and longevity of ophiuroids under various climatic conditions.

Lewis, R. - would like information (references or unpublished material) on population dynamics of living and fossil echinoderms.

McEdward - requests information on techniques for measuring metabolic rate (oxygen consumption) of echinoderm larvae.

Nateewathana - would like to correspond with scientists interested in holothurians of the Andaman Sea.

Nauen - requests raw data on seasonal growth and respiration of asteroids.

Ohta - notes that more than 40,000 pairs of stereoscopic bottom photos from the shelf edge to depths of 7,500 m are stored in his laboratory. Echinoderms are conspicuous faunal components.

Pagett - requests any information, references, observations which are unpublished, and formalin preserved or dried material concerning ophiuroid-sponge associations.

Parsley - requests all available mitrate material for a monograph of the North American species.

Pearson - would like to hear from anyone who has successfully tagged holothurians.

Petersen - requests reprints of recent papers on ecology and/or physiological ecology of echinoderms.

Rahaman - would like to have references and/or reprints of papers covering paleoecology of echinoids.

Roux - requests information on unpublished localities of stalked crinoids for biogeographical studies from upper Cretaceous to Recent.

Scally - is interested in specimens of echinoids in which there is disorganization of the teeth or Aristotle's lantern (missing teeth, fractured alveoli, etc). Also, would like to have wet or dry specimens of Echinothrix spp., Astropyga spp.

Shepherd - has been studying population explosion of the echinoid Paracentrotus lividus in the NW Mediterranean and would greatly appreciate information on population increases of this urchin elsewhere in its geographic range.

Siebertz - is interested in information on migrations of recent or fossil echinoids.

Siegel - requests specimens, papers or distributional notes on Chiridota laevis from regions other than the Maine coast of U.S.A. Would like to exchange information on reproductive biology of apodous holothurians, especially occurrences of protandric and protogynic hermaphroditism, larval development, spawning behavior, unusual breeding cycles, use of gonadal indices, and special staining techniques for holothurian gonadal tissues.

Tantichodok - would like to correspond with scientists interested in holothurians of the Andaman Sea.

Tertschnig - is interested in papers on grazing action of sea urchins in sea grasses and kelp beds. Would also like to have information on sea urchin distribution and ecology in general in Caribbean Thalassia and in Syringodium filiforme.

Thandar - would like to receive alcohol preserved specimens of dendrochiroirotid holothurians, particularly of the genera Cucumaria, Pseudocnus, Ocnus and Trachythone for comparative study with southern African forms.

Turner - is interested in purchase of asteroid and ophiuroid monographs.

Tyler - seeks details of ecology and biology (including distribution) of deep-sea ophiuroids.

Walenkamp - seeks literature (reprints) on the zoogeography of asteroids in (sub)tropical Atlantic waters and adjacent areas.

Waren - is interested in studying any gastropods found on echinoderms.

Wellington - would like information on any new techniques for determining age of echinoids.

Zammit-Maempel - requests comparative Echinocyamus material (Recent and fossil) and literature on Echinocyamus.

Current Research Interests

- Abbott - Biology of echinoids at Maalaea Bay, Maui,
Biology of echinoids at Tague Bay, St Croix USVI.
- Allen - Immune reactions in Echinus.
- Anderson - The distribution of pelmatozoan associations
in punctuated aggradational cycles (PAC's).
- Anderson, J.M. - Histology of cardiac stomach, Oreaster.
- Arendt - Carboniferous crinoids (Moscow basin).
- Arnaud - Pelecypoda associated with antarctic echinoids.
- Ausich - A model for niche partitioning in Lower
Mississippian crinoid communities, community types and
geographic endemism of Lower Mississippian (carboniferous)
crinoids (with N.G. Lane), evolution of the subclass
Flexibilia (with S. M. Kelly).
- Baker - Australasian Euryalinida (revision); Tasman Sea and
south Australian ophiuroids . . . ; Australasian
heart-urchins (new forms).
- Bay-Schmith - Larval massive culture of the edible sea urchin
Loxechinus albus.
- Bell - Implication of inferred anatomy, ontogeny and symmetry
for the higher taxonomic categories of the Echinodermata.
- Belyaev - The descriptions of some new deep-sea Myriotrochidae
(Holothurioidea) and revision of the generic composition
of this family.
- Bergen - Taxonomy of Dendrochirote holothurians. Effect
of predation on succession in a subtidal hard-bottom marine
community.
- Bergen, M. - Effect of predators on succession in a subtidal,
hard-substrate community in southern California.
- Berger - Systematics, morphometric and demic variation of the
entocommensal ciliate protozoa found in echinoids.
- Bernasconi - Asteroidus Argentinos. VII fam. Echinasteridae.
- Binyon - Permeability.

- Birkeland - Echinoid grooves in tropical shores as beneficial for coral recruitment, factors favoring successful recruitment of Acanthaster.
- Birtles - Temporal and spatial distribution of epibenthic echinoderms on Great Barrier Reef shelf. Systematics of echinoderms from Great Barrier Reef.
- Blake - Relationships among the spinulosidan and some post-paleozoic fossil sea stars.
- Bockelie - Morphology, systematics, palaeoecology of primitive echinoderms from Scandinavia.
- Briskeby - Taxonomic and stratigraphic studies of crinoid ossicles. Thesis work.
- Brooks - NE Pacific holothuroidea.
- Branstrator - Paleoeecology, paleobiology, systematics of asteroides from Western North American Ordovician.
- Bray - Microstructure of the ophiuroid endoskeleton.
- Breimer - Phylogeny shiraculate blastoids.
- Brett - Classification, and functional morphology of pelmatozoan attachment structures; echinoderm fauna of the Rochester Shale (Late Silurian); crinoids of the Mississinewa Shale (Late Silurian) (with B.D. Erdtmann); epizoans on Eucalyptocrinites from the Waldron Shale (Late Silurian) (with W.D. Liddell).
- Brito - Clypeaster aloysioi, an uncommon echinoid of the State of Rio de Janeiro, Brazil - to be presented on the VI Brazilian Congress of Zoology, Feb. 1979, Rural University of Rio de Janeiro.
- Broadhead - Evolution of Hexacrinitacea; systematics and evolution of rhombiferan cystoids; functional morphology of pelmatozoan stem articulations; biostratigraphy and paleoecology of Ordovician echinoderms from the southern Appalachians.
- Broerkjes - Transport of metabolites in *Asterias rubens*. Vitellogenic proteins in *Asterias rubens*.
- Broom - Behavior of brittle-stars and crinoids.
- Brower and Veinus - Evolution of Calceocrinidae, growth and functional morphology of calceocrinidae.

In conjunction with Julia Veinus, dimerocrinitids from the Wenlock of England.

Brunel - With Bernard SAINTE-MARIE: Distribution and groupings in St. Lawrence Estuary and Saguenay Fjord.

Burke - Larval sensory structures, fate of larval structures, origin and development of adult structures.

Byrne - Ophiuroid nervous system, spinal nerve and ganglia.

Caffi - Reproductive Biology of Athyonidium chilensis (Semper) 1868. (Thesis).

Camargo - Distribution of echinoderms on the coast of Brazil.

Campbell - Pedicellarial populations of echinus esculencus and Psammechinus miliaris; sea urchins as substrates for barnacle cyprid settlement.

Campbell, D.B. - Systematics of the Echinasteridae, use of ossicle morphology in systematics.

Cannon - Endosymbiotic turbellaria of holothurians.

Caso - Monografias sobre los Equinodermos del Pacifico de Mexico.

Castilla - Heliaster helianthus and Meyenaster gelatinosus as predators of Concholepas concholepas, the chilian "Coco".

Castro - Behavioral ecology of crustacean symbionts.

Challis - Ph.D. topic - Palaeoecology and taxonomy of mid-tertiary maltese echinoids.

Chauvel - Revision des Cystoides et des Carpoides du Massif armoricain.

Chen - Reproductive biology of Tripneustes gratilla (L.) and collecting other echinoderms. Taxonomic study on sea urchins in Taiwan.

Cherbonnier - Holothurians of Madagascar, holothurians antarctiques, echinides des Philippines.

Chia - Spermatogenesis of a crinoid, Florometra serratissima (with Bickell and Crawford), Induction and development of exogastrulae in the starfish, Pisaster ochraceus (with Crawford), reproductive biology of a viviparous holothurian, Leptosynata clarkii.

- Crippen - Marine impact assessments and monitoring studies in Atlantic Canada and the Canadian Arctic.
- Christensen - Daily activity in relation to light and food in Astropecten irregularis.
- Clark - Asteroidea of the Atlantic.
- Cobb - Giant fibre systems.
- Costa - Benthic communities in the vicinity of Rio de Janeiro.
- Costelloe - Aspects of the biology and ecology of Aslia Cefevrei.
- Cousineau - Methodological: Lsopycuia Centrifugation (seaurchins).
- Crump - Ecology of Asteria gibbosa and A. phylactica.
- Cunningham - Taxonomy of intertidal amphiurid brittlestars, north of Pt. conception; distribution patterns of similar species.
- Cutress - Holothurians of Puerto Rico.
- Dafni - Biology of tripueuster gratilla in the northern Red Sea.
- Dartnall - Identity of Caymanostellidae from New Zealand.
- Dayton - Benthic ecology.
- Dearborn - Ecology of Ctenodiscus crispatus in the Gulf of Maine; feeding biology of Antarctic crinoids, asteroids, and ophiuroids.
- de Celis - Systematics, ecology of Tayabas Bay echinodermata. (Asteroidea and Ophiuroidea).
- Devaney - IIOE ophiuroid collection, SW Australian ophiuroid handbook.
- Doi - Feeding behavior.
- Donnay - Doloruite abnormalities in fossil shells.
- Eastwood- Environmental impacts of residential developments on estuarine and littoral areas of Staten Island.
- Ellington - The role of collagenases in the local degeneration process of Isostichopus badionotus.

- Emson - Comparative study of Echinoid growth, production etc. from different areas. (with P. Moore) Eophysiology of Amphiphlis squamatu (with J. Foote).
- Endean - Toxic materials elaborated by echinoids.
- Engel - ~~English~~ Maastricht Cretaceous Echinoids.
- Engstrom - zoogeography of regular urchins in the Caribbean.
- Ernest - Analyses of gut contents from Astropecten duplicatus - relationship of food consumed to its availability in the environment - study area Hutchinson Island, Florida.
- Eylers - Effects of inorganic ions on the cohesion of matrix polymers in the dermis of Holothurians.
- Fankboner - Feeding in sea cucumbers.
- Farmanfarmanian - None on echinoderms, but I have at least two papers in various stages of preparation. These are on sugar absorption in the intestine of thyone. Expecting to return to intestinal absorption of nutrients.
- Fay - Bromile formation, echinoderms.
- Feder - No direct echinoderm work published or in progress. OCSEAP Report on Northeastern Bering Sea including sea star distributions and some feeding biology.
- Fell - Antarctic echinoidea, North Atlantic echinoidea.
- Feral - Feeding and digestion of the intertidal Leptrosynapta. Structure and ultrastructure of the digestive tract. Enzymology. Taxonomy of holothurians.
- Ferber - Echinoderms of the Red Sea, echinoderm larvae in the plankton of the Gulf of Elat, Red Sea; Functional morphology of Spatangoida.
- Ferguson - Integumental nutrition.
- Fernandez - Natural history and population dynamics of Holothuria mexicana. Investigation of its suitability for commercial fishery producing beche-de-mer.
- Fenaux - Larval nutrition.
- Ferrand - Vitellogenesis in Asterina gibbosa, compared with this one in Asterias rubens.
- Fishelson - Biology and distribution of echinoids in the

Mediterranean and Red Sea (Gulf of Aquaba).

Fontaine - Scanning electron microscopy of coelomocytes.
Echinoderms skeleton in biomedical materials research.

Frankel - Ecology of the genus Phyllacanthus in Port Jackson. Pre-existence of Acanthaster in numerous places around the world.

Frankin - Reproductive biology and ecology of S. ailoronotus and H. leucoapilota on Heron Island. G.B.R. (for Ph.D).

Franzen - Pisocrinidae from Gotland, Sweden, Neobothriocidarids and Cyclocystoidea from Gotland, Sweden.

Frest - Middle Ordovician crinoids of Iowa; early evolution of the Platycrinidae; Silurian Pygmaeocrinidae; Kimmswick Comarocystitida; Silurian and Devonian echinoderms from western North America.

Gage - Community structure of Benthos in the Rockall trough area. (in collaboration with D.A. Tyler.) Reproduction and population dynamics of ophiurids, ophiurids, latens ophiocantha bidentata, ypsilothuria sp. cherbonniera utriculus and porcellanaster caeruleus.

Galleffi - Upper Cretaceous Echinoids from Catalonia, NE Spain.

Geronimo - "A Review of Macrophiothrix clementii Domantay 1957".

Glynn - Effect of Acanthaster and Toxopneustes on reef coral populations in Panama.

Goldberg - The isolation of bioactive compounds from sea urchins.

Goldschmid - REM study on Coelomocytes and lacunary system of axial organ in echinoids, fine structure and function of Tiedemann's bodies in Echinoids.

Gooding - Copepod associated with Diadema antillarum.

Gras - Reception of light and pigment movement in color change.

Green - Cortical granule exocytosis in Echinoid fertilization.

Guille - Ophiurids of west Indian Ocean, revision of Snellius ophiurids (H.L. Clark coll.) bathyal forms of ophiurids.

Gutierrez - Estudios sobre procesos de obtencion de semilla de Loxechinus albus (erizo comestible).

- Hamada - Microtubules and microfilaments during reformation of embryonic form.
- Hancock - Survey of chagos Archipelago's Echinoderms (Peros Banhos).
- Hansen - Systematics and biology of the deep-sea holothurians: order Aspidochirota. Scandinavian holothurians (for Marine Invertebrates of Scandinavia).
- Harriott - Distribution patterns, growth rates and reproductive biology of holothurians at Huron Island and North Queensland.
- Haude - Middle Devonian Echinoderms of the Eastern Rheinisches Schiefergebirge.
- Haugh - With B.M. Bell: fossilization of viscera in primitive echinoderms, with B.M. Bell: biological organization and classification (revised at high rank) of Echinodermata, stereomic microstructure in fossil echinoderms.
- Hawkins - Ecological energetics of Diadema antillarum in Barbados, West Indies.
- Hecker - Ordovician Cysteroidea of the Leningrad region and Estonia.
- Hendler - Review of ophiuroid reproduction. Systematic analysis based on skeletal ontogeny.
- Hess - Distribution and ecology of Chariocrinus andreae (DESOR).
- Hickey - The reproductive biology of Tripneustes esculentus.
- Hidaka - Fine structure and mechanical properties of the catch apparatus of the sea-urchin spine.
- Hilgers - Skeletal systems, connective tissue - muscles.
- Hill - EC coupling in longitudinal retractor muscle.
- Himmelman - Regulation of reproductive cycles, benthic ecology.
- Hobaus - Coelomocytes (morphology, cytochemistry) from mediterranean echinoderms.
- Hoggins - None at the moment, except general field observations as I am teaching at present and have no facilities.

- Hopkins - Echinoderms of Eastern Gulf of Mexico, Echinaster and Ophioderma; Ophiactis; Ophiothrix problems.
- Hora - Holothuriidae from Brazil and rock-burrowing, action of Echinometra lucunter.
- Horowitz - Restudy of genus PENTREMITES with D.B. Macurda, Jr. and J.A. Waters.
- Hoshiai - Ecology of Antarctic benthos in coastal areas.
- Hoskin - Description of Mucronalia edulis n.sp. parasitic upon Holothuria atra.
- Hotchkiss - Ophiuroid ecology and systematics, Belize. Fossil echinoids of Antarctica, Patagonia, Southern Hemisphere. Autotomy in starfish.
- Hulbert - Role of Asterias vulgaris in 3 subtidal communities, offshore asteroid populations on Jeffries Ledge and Loshes Ledge in the Gulf of Maine.
- Irimura - Ophiurid fauna of Japan and Antarctic.
- Irvine - A study of algal succession in damselfish (Eupomacentrus planifrons) territories in San Blas, Panama; reproductive cycles of E. planifrons.
- Iwata - Physiology of reproduction.
- James - Distributional pattern of echinoderms of Sri Lanka and South East coast of India.
- James, D.B. - Sea cucumber culture and distributional pattern of echinoderms in India and Sri Lanka.
- Jangoux - Echinoderms nutrition. Asteroids systematic.
- Jaramillo - Holothuroidea from the archipelagos of Chiloe and Chonos, Southern Chile.
- Jeffries, R. - Origin of tunicates; origin of nutrates; cinctate "caysoids".
- Jensen - Test skeleton.
- Jesionek-Szymanska - Morphology and microstructure of fossil echinoid teeth.
- Kanatani - Mechanism of oocyte maturation and spawning.
- Kao - Comparative physiology of starfish (Respiration).

- Kardas - Update, echinoderms of New Jersey mass migrations, invasions, and deaths, as well as other unusual group "behavior".
- Katsura - Electron microscopic studies on early development of sea urchin embryo.
- Kawamura - Ecological studies on the planktonic and deposited larvae of sea urchins, Strongylocentrotus.
- Keegan - Aggregation.
- Keller - Studies of benthic communities of Central California.
- Kelly - (with W.I. Ausich) The ordovician cladid Cupulocrinus had the evolution of the Flexibilia. The tegmen and madraporite, and the functional morphology of the anal sac of "Dendrocrinus" casei.
- Kelso - Morphologic and ecologic variation in Echinometra
- Keough - Organization of epifaunal communities on the shell of a bivalve mollusk (Pinna bicolor).
- Kesling - Paleoecology of Middle Devonian silica formation. New starfish from the silica formation.
- Kikuchi - Growth and population fluctuation of two amphiuroid ophiuroids, Amphioplus japonicus and Icalia syntharacha.
- Kobayashi - Marine pollution bioassay by sea urchin eggs and embryos.
- Kolata - Camerate crinoids of the Bromide Formation, Stylophora of the Eastern Interior.
- Komatsu - Development of sea-stars, especially Luidia, Astropecten, Ctenopleura and Asterina.
- LaBarbera - Suspension feeding mechanisms and metabolic costs in Ophiopholis aculeata.
- Lane - Carboniferous microcrinoids.
- Larrain - Irregular fossil and recent echinoids of Chile, Asteroids of Southern Chile, taxonomy, biogeography, East Pacific zoroasteridae.
- Lawrence - Nutrition and Physiological ecology of Lytechinus

variegatus and Luidia clathrata.

- Lewis, D. - Echinoids from the Barton Beds (Ur. Eocene) of the Hampshire Basin, England.
- Lewis, R. - Holdfasts and root systems in Fossil Echinoderms of the Bromide Formation of Oklahoma, Sprinkle (Editor): Revision of the genus Sciadiocrinus (with Strimple).
- Liao - The Echinoderm fauna of continental shelf of East China Sea. The aspidochirote holothurians of China.
- Liddell - Distribution, habitats and food of Recent Caribbean crinoids. Variation within Caribbean crinoid populations.
- Litvinova - The study of nutrition biology of the ophiuroids.
- Lonning - Oil pollution studies.
- Lubchenco - Community structure and organization in a tropical rocky intertidal zone (Pacific coast of Panama); Comparative effects of herbivores in New England, Panama and Oregon.
- Lucas - Acanthaster planci and hybrids. Ophidiaster granifer parthenogenesis (with Yamaguchi).
- Mackie, A. - (not working on echinoderms at moment). Saponins of asteroids.
- Mackie, S. - Community structure on Northern Gulf of California reefs.
- Macurda - Ecology of Indo-Pacific crinoids; evolution of Pentremites (blastoids).
- Madsen - Norwegian Sea Asteroids. Deep Sea Asteroids and Ophiuroids.
- Maczynska - Holasteroidea from the Upper Cretaceous of the South Poland.
- Magniez - Ph.D. on the reproductive cycle and biochemistry of Abatus cordatus (Echinoidea, spatangoidea).
- Maluf - Gulf of California echinoderm distribution and abundance, biogeographic considerations.
- Marcus - Development of twinned sea urchins. Genetic aspects of morphological variation.
- Marques - Study of the echinoderms in general in the Portuguese waters.

- Marsh - (with F.W.E. Rowe) Revision of Asteroid genera Hacelia, Ophidiaster and Tamaria. (with M. Jangoux) Revision of Fromia.
- Marshall - Systematics of Australian genera.
- Martin, E.- Gut contents of Astropecten duplicatus from nearshore waters off the east coast of Florida; survey of echinoderms from three locations off the east coast of Florida.
- Martin - Reproductive patterns in the genus Patiriella; settlement and growth of crinoids, particularly Tropiometra afra, in unstable habitats.
- Martinsson - Pedicellariae of Palaeozoic Asterozoa.
- Mayer - A study of the population ecology of the sea urchin Strongylocentrotus polyacanthus.
- Mayou - Tertiary Asteroid ossicles from Florida.
- McConnaughey - Teaching at Oregon Institute of Marine Biology Charleston, Oregon, and the University of Oregon Eugene Oregon.
- McEdward - Respiratory electron transport activity during larval development of Lytechinus variegatus.
- McIntosh - Classification of early Paleozoic cladid in-
adunate crinoids; paleoautecology and synecology of Devonian crinozoans and blastozoans; a new genus and family of Silurian crinoid.
- McKemie - Morphology and taxonomy of Agmocrinus tribrach-
iatus (n.g., n.sp.).
- McKnight - Distribution W.W. Pacific fauna.
- Meijer - Calcium-binding proteins and protein phosphorylation in starfish eggs at maturation.
- Merger - Community organization in a tropical rocky intertidal habitat.
- Messing - A revision of the tropical western Atlantic crinoids.
- Meyer - Ecology and distribution of Indo-West Pacific shallow-water crinoids (Australia, Palau, Indonesia, Indian Ocean)(with Macurda). Paleoecology of U. Ordovician edrioasteroid beds, Ohio, Kentucky.

- Miller - Shallow water holothurians of the western north Atlantic; larval development of Coelopleurus floridanus; Ecology of Holothuria (Vaneyothuria) lentiginosa erodis.
- Mironov - Systematics and distribution of echinothuriid and meridosternin echinoids. Revision of Myriotrochidae.
- Mitrovic - Biostratigraphy and paleoecology of Cretaceous Echinoidea.
- Mladenov - A study of the reproductive biology and larval development of the northeast Pacific feather star Florometra serratissinid.
- Morgan - Mg/Ca ratios in tests of fossil Clypeasteroid echinoids as paleoecological indicators.
- Morishita - Biostratigraphy and Paleocology of Mesozoic and Cenozoic Echinoids.
- Mukai - Population dynamics of Archaster typicus. Feeding habit of Astropectinid sea-stars.
- Morrell - Skeletogenesis in sea urchin larvae, effects of pollutants on normal development.
- Muscat - Synonymy of Amphiodia urtica and Amphiodia digitata. Dissertation topic: "Factors determining the distribution and abundance of an intertidal ophiuroid population". species - Ophioplocus esmarki, initial factors to be tested - physical disturbance and intraspecific interaction.
- Nagahama - Mechanism of oocyte maturation in Echinoderms and Teleosts.
- Nateewathana - Taxonomy of echinoderms, especially holothurians of the Andaman Sea.
- Nauen - Seasonal growth of sea stars.
- Nestler - Maastrichtian Cidarids.
- Nichols - Population studies on the European sea-urchin, Echinus esculentus. Functional morphology of the madreporic complex in echinoderms.
- Niesen - Alternate steady states of sea star populations.
- Nojima - Ecological energetics of Astropecten latespinosus; ecological role of this species in the community.
- O'Brien - Factors affecting the distribution of shallow

- water asteroids in the western Atlantic.
- O'Connor, B. - Population dynamics of Amphiura filiformis, breeding of Leptosynapta minuta.
- O'Connor, C. - Deep sea echinoid reproduction.
- Oguro - Significance of development and metamorphosis in Asteroid phylogeny.
- Ohta - Zonation and life-forms of deep-sea echinoderms.
- Okada - Formation of the secondary sexual characters in sea urchins (with Y. Tahara).
- Okazaki - Differentiation of the spicule forming cells studied by the use of in vitro system of the isolated micromeres at the 16-cell stage.
- Oldfield - Revision of Australian Ophiotrichidae and Ophiodermatidae.
- Otsu - Estudios sobre procesos de obtencion de semilla de Loxechinus albus (erizo comestible).
- Oudejans - The process of vitellogenesis in Asterias rubens, biosynthesis of triacylglycerols and neutral ether lipids in Asterias rubens.
- Pabian - Late Pennsylvanian crinoids, mid-continent U.S., taxonomy, palioecology, biostratigraphy, Argentine Ls., Stull Sh., Plattsburg Ls., Wann Sh.
- Pagett - Strontium/calcium atom ratios in echinoids and ophiuroids.
- Paine - "Organizatin" of rocky intertidal communities.
- Parsley - Paracrinoids, diploporids, pleurocystitids, mitrates of the Bromide Formation; revision of the North American Mitrata (with K.E. Caster).
- Patent - EM study of oogenesis in Gorgonocephalus (with G. Patent).
- Paterson - NE Atlantic Ophiuridae and Ophiacanthidae.
- Paul - Revision of the Cyclocystoidea, functional morphology of stereom structures in fossils (with A. Smith).
- Pearse - Experiments on the effects of food and varying photoperiods on gametogenesis in asteroids and echinoids.

- Pearson - Acanthaster planci, ecology on Great Barrier Reef, biology and ecology of commercial species of holothurians on the Great Barrier Reef.
- Pentreath - Radiamchides in echinoderms.
- Pentreath, V. - Synaptic structure.
- Perry - Calcium controlled oxygenases in the sea urchin egg.
- Petersen - Effects of temperature and salinity on development and survival of echinoids, aspects of oxygen uptake in ophiuroids.
- Phelan - Function of the compasses in the Aristotles lantern. Developing a method for observing the compasses functioning in a living echinoid.
- Philippe - Echinides du facies "Marnes bleues de Faucon", Miocene inferieur du Sud-Est de la France.
- Pires - Echinaster spp. from the coast of Brazil; the rock-burrowing action of Echinometra lucunter.
- Poretzkaja - Inner structure of the test of the genus conoclypus L. Agassiz.
- in, set-vested
- Pestedge - Patiriella vivipara. Growthrate; birthrate; length of time from birth to reproduction; how long the reproductive life is; how long the animal lives for; effect of varying salinity concentrations, and any general observations on behavior etc.
- Priest - I display crinoids all over the Mid-west from Michigan and Minnesota to Texas and Ohio to Kansas and Nebraska. I collect them in the field and clean them for display. I also work with Harrell Strimple at U. of Iowa.
- Profant - Protozoan symbiotes of regular echinoids.
- Prokop - The Family Hexacrinidae Bassler, 1938/ Crinoidea/ in the Devonian of Bohemia.
- Rahaman - Cretaceous echinoids of Ariyalur- South India.
- Raja - Biochemical and histochemical studies on oogenesis in echinoids and asteroids of Madras coast.
- Raymond - Fine structure and innervation of the echinoid water vascular system.

Regis - Microstructure des piquants des Cidaridae mediterraniens et tropicaux - problemes d'adaptations morphofonctionnelles. Mise en evidence d'absorption de particules dissoutes et en suspension par les piquants de divers Echinoides. Importance de la microstructure des radioles.

- Reimer - Review of feeding behavior in invertebrates.

Regnell - Cystoids from various countries; silurian ophiuroid from Gotland, Bolboporites.

Rieger - Ultrastructural investigation of the lining cells in echinoderm tube feet.

Rho - On the Classification and distribution of the Echinoderms in Korea 1. Ophiuroidea and 2. Holothuroidea.

Roman - Echinides pleistocenes et recents de la mer Rouge.

Rose - Australian Jurassic echinoids, tertiary echinoids of Malta and nearby areas.

Roux - Stem joints of recent stalked crinoids. Morphofunctional analysis, evolutionary biogeography. Deepsea ecology.

Rowe - Echinoderm fauna southern Australia. Echinoderm fauna Tasmania, Long-term revision of H.L. Clark, 1946. Revisions of Mardoa, Gomophia, Hacelia, Tamaria and Ateg ophidiasteria (with L.M. Marsh and M. Jangoux). Revision of Podosphaeraster (with D. Nichols and M. Jangoux). Revision of Pentacta with D. Pawson, Abrolhos holothurians with D. Pawson.

Rozhnov - Carboniferous crinoids (Moscow basin)

Rutherford - Incidence of parasitic snails on Holothuria atra and Actinopyga maurifiana in Hawaii.

Salazar - Toxicity testing of dredge spoils, development of a bioindicator system using byssal thread production in mussels.

Salvat - Annual changes in the gonads of Anasterias minuta.

Sastry - Taxonomy: Asteroidea, Ophiuroidea, Echinoidea.

Sato - Thermodynamic analysis of association-dissociation reaction of mitotic spindle in developing echinoderm zygotes. Isolation and purification of tubulin paracrystals.

- Scally - Differential teeth wear: abrasion and sharpening wear (Thegosis) in echinoid teeth.
- Scheibling - The ecology of Oreaster reticulatus (L.) in the Caribbean. Ph.D. thesis, Mcbill U.
- Schuetz - Metabolism of methyladenine.
- Schuhmacher - Impact on coral growth feeding of corals.
- Seibertz - Biostatistic and migration of the Ecuomanian and Turonian Echinocorys sphaerica/gravesi - group.
- Sevastopulo - Functional morphology of carboniferous microcrinoids (with N. Lane).
- Shick - Nutritional and reproductive biology of the infaunal mud star Ctenodiscus crispatus.
- Shirai - Maturation - action of 1-methyladenine, fertilization - as a phenomenon subsequent to maturation.
- Shirley - Spatial and temporal variations in ophiuran distributions in the NW Gulf of Mexico.
- Sibuet - Abyssal Ecology of Echinoderms in Bay of Biscay.
- Silver - A survey of the evisceration response in tropical holothurians. Investigation of the mechanism of evisceration.
- Simpson - Reproduction of sub-Antarctic asteroids and holothurids.
- Singletary - morphological variations of Arbacia punctulata in Long Island Sound.
- Smith - Plate growth and stereom microstructure, recent and fossil echinodermata.
- Solovjev - Morphology, phylogeny of Cretaceous and Paleogene Spatangoid Echinoids.
- Speel - Antarctic crinoids - systematics and zoogeography.
- Spencer - Population dynamics of Strongylocentrotus droebachensis.
- Splechtna - Skeletal systems, connective tissue - muscles.
- Sprinkle - Echinoderm faunas from the Bromide Formation (Middle Ordovician) of Oklahoma (monograph with 8 other authors plus several shorter papers); New Middle Ordovician Hybocrinid from Nevada (with McKemie); New echinoderms from the Late Cambrian of Missouri (with Strimple);

- chapter on echinoderms for paleontology text.
- Stancyk - Life history pattern of Ophiothrix angulata in South Carolina.
- Stoeppelwerth - Oocyte resorption in Luidia clathrata; its description, natural occurrence, and regulating mechanisms.
- Stokes - Cretaceous spatangoid echinoids of Britain. Echinoids around the Cretaceous-Tertiary boundary.
- Strathmann - Hybridization and competition between Strongylocentrotus droebachiensis and S. pallidus; adult size, egg production, and brooding versus free spawning in selected echinoderms.
- Strimple - Permian crinoids of the Glass Mountains, Texas.
- Sugiyama - Species-specific interaction between gametes in sea urchins.
- Surrano - E-G-G Survey - U. of Delaware benthic component of Baltimore Canyon effects by perturbation.
- Sutton - Taxonomy of Amphiodia urtica and related species; ecology of San Francisco Bay; re-organization of ophiuroid collections of California Academy of Sciences;
- Tahara - Secondary sexual characters in sea urchin, its morphology and development.
- Tantichodok - Taxonomy of echinoderms, especially holothurians of Andaman Sea.
- Takahashi - Catch mechanism in echinoid spine. Mechanism of spermatozoan motility.
- Tegner - Multispecies considerations of resource management in southern California deep beds with an emphasis on sea urchins, Experimental Abalone Enhancement Program.
- Tertschnig - Ecology and distribution patterns of the Mediterranean sea urchins Paracentrotus Liv, Arbacia Lix. and Psammechinus miliaris in sea grass meadows around Ischia Island, Gulf of Naples.
- Thandar - Holothurian fauna of southern Africa.
- Thomas - Continental Shelf paper.
- Thompson - Distribution and abundance of echinoderms in Hong Kong waters.

- Tommasi - Echinoderms of Antarctic and subantarctic regions.
- Tortonese - Mediterranean fauna.
- Town - Population dynamics, reproduction and feeding in Astrostole scabra (asteroidea: forcipulata).
- Turki - Etude des Echinides Mesogorique de Tunisie, en vue d'une these d'Etat.
- Turner - Disc regeneration in Ophiophragmus; systematics of Florida species of Echinaster; diet of Ophiophragmus; salinity tolerance and distribution of Ophiophragmus; skeletal morphology of Echinaster.
- Tyler - Reproductive strategies in deep sea ophiuroids and holothurians.
- Ubaghs - A probably new species of stylophorian carpoid from the Lower part of France (Montagne Noire).
- Urbina - "Anatomia e Histologia de Athyonidium chilensis (Semper) (THYONIDIINAE-CUCUMARIIDAE-HOLOTHUROIDEA-ECHINODERMATA)".
- Vadas - Feeding ecology of sea urchins in The Virgin Islands (with S.C. Ogden), Population genetics of Asterias in Maine (with B. May and P. Gagnon).
- Van der Plas - The pyloric caeca of the female seastar Asterias rubens during its annual reproductive cycle.
- Voogt - Role of steroids in the reproduction of Asterias rubens.
- Wahlman - Echinoderms of the Lower Silurian Brassfield Fm. in Ohio-Indiana-Kentucky region. Some Lower Ordovician echinoderms from El Paso Group of southwestern Texas. Siurian reef echinoderm paleoecology.
- Walenkamp - Taxonomy and zoogeography.
- Walker - Spermatogenesis, the structure and function of the spermatogenic microenvironment in asteroids - an ultrastructural and histochemical study. Bacteria and brooding in the ophiuroid, Axiognathus (amphipholus) Aquanata adunata.
- Waren - A taxonomical revision of the gastropods parasitizing echinoderms.
- Waters - Evolution and paleoecology of Pertremites (Blastoidea)(with D.B. Macurda, Jr. and A.S. Horowitz).

- Weber - Tiguent cells in the epithelium of Centrostephanus longispictus.
- Webster - Some Jurassic and Cretaceous crinoids from the Himalayas with V.J. Gupta. Some Silurian and Devonian crinoids from the Himalayas with V.J. Gupta. Permian crinoids from Western Australia. Continuing bibliographic compilation of Paleozoic crinoid literature. Study of faunas, paleogeography, and sediment relationship of Lower and Middle Mississippian of the western U.S.
- Welch - Population dynamics of Pennsylvania crinoid colonies living in algal banks of Illinois Basin.
- Wellington - Factors influencing coral zonation pattern in the Eastern Pacific.
- Witzke - The echinoderms of the Hopkinton Dolomite, Lower Silurian, eastern Iowa.
- Wolfe - Sigsbeia and Schizostella species.
- Woodley - Operation and function of ophiuroid tube-feet and their mucous glands.
- Wilkie - Structure and function of the cirri of Antedon bifida.
- Word - Taxonomic standardization program, investigating effects of sewage on marine coastal communities, key to 76 California ophiuroid species.
- Wright - Cassiduloids - New English Cretaceans.
- Yamaguchi - (with students) Feeding behavior of Acanthaster. Covering behavior and migration in echinoids. (I am working on cnidarians and mollusks).
- Yanagisawa - Genome analysis of sea urchin DNA, metabolism of RNA and mucopolysaccharides.
- Yensen - Heliaster food web.
- Yoshida - Regeneration of starfish ocellus.
- Zavodnik - Echinoderms in the circalittoral zone of the Adriatic Sea.
- Zeidler - Revision of the genus Nectria (Asteroidea), Echinoderm fauna of Southern Australia.

Ph.D. Dissertations

- Ackerman, J. McG. 1972. The demography of the marine Mussel, *Mytilus californianus*. Univ. of California, Berkeley. (*Pisaster ochraceus* as predator).
- Ahlfield, T.E. 1977. A disparate seasonal study of the reproduction of eight deep-sea macroinvertebrate species from the northwestern Atlantic Ocean. Florida State Univ. (includes three species of ophiuroids, one species of echinoid).
- Amy, C. McD. 1976. Properties of adenylate cyclase studied in early development in the sea urchin. Univ. of Virginia.
- Barnes, J.R. 1972. Ecology and reproductive biology of *Tonicella lineata* (Wood, 1815) (Mollusca, Polyplacophora). Oregon State Univ. (*Pisaster ochraceus* and *Leptasterias hexactis* as predators).
- Belanger, A.M. 1963. Movement of echinochrome pigment granules in sea urchin embryos. Case Western Reserve Univ.
- Bowlus, R.D. 1979. Solute compatibility with biological macromolecules: the influence of the major intracellular solutes of marine invertebrates on enzyme structure and function. Univ. of California, San Diego. (includes *Parastichopus*).
- Brandis, J.W. 1978. Translational efficiency: part of the mechanism accelerating the rate of protein synthesis following fertilization of the sea urchin egg. Indiana Univ.
- Brett, C.E. 1978. Systematics and palaeoecology of late Silurian (Westlockian) pelmatozoan echinoderms from western New York and Ontario. Univ. of Michigan.
- Carroll, A.G. 1978. An electrophoretic analysis of the fate of sperm and egg histones of the sea urchin *Strongylocentrotus purpuratus* after fertilization, with an analysis of the possible role that proteolytic enzymes play in the fate of gamete histones. Michigan State Univ.
- Cohen, G.H. 1968. Sea urchin polysomes and their function during embryogenesis. Univ. of Miami.
- Grandall, D.E. 1975. Pyrimidine metabolism and its regulation in the sea urchin (*Arbacia punctulata*). Univ. of Rhode Island.
- Cross, C.M. 1975. Growth and reproduction in small populations of a marine macroalga in the intertidal zone of a rocky shore. Univ. of Oregon. (refers in general to role of echinoids).
- Defenbaugh, R.E. 1976. A study of the benthic macroinvertebrates of the continental shelf of the northern Gulf of Mexico. Texas A&M Univ. (includes 30 species of echinoderms).
- DeGroff, R.C. 1974. The effect of marine toxin holothurin-A on squid axon membrane. Duke Univ.
- Devlin, R.B. 1976. Mitochondrial messenger RNA synthesis during early sea urchin development. Univ. of Virginia.

- Dimock, R.V., Jr. 1971. Ecology and physiological aspects of host recognition by a symbiont polychaete. Univ. of California, Santa Barbara. (symbionts on holothuroids and asteroids).
- Edwards, B.F. 1978. Hatching enzyme in the sea urchin *Strongylocentrotus purpuratus*: purification, characterization, and time of synthesis. Univ. of California, Davis.
- Fansler, B.S. 1972. The reversible association of DNA-polymerase with the nucleus in early development of the sea urchin. Univ. of Pennsylvania.
- Fell, F.J. 1976. The Cidaroida (Echinodermata: Echinoidea) of Antarctica and the southern oceans. Univ. of Maine.
- Garnas, R.L. 1975. Comparative metabolism of pesticides by marine invertebrates. Univ. of California, Davis. (includes *Pisaster ochraceus*).
- Gerard, V.A. 1976. Some aspects of material dynamics and energy flow in a kelp forest in Monterey Bay, California. Univ. of California, Santa Cruz.
- Glabe, C.G. 1977. The isolation and characterization of the vitelline layer of the sea urchin egg and its role in fertilization. Univ. of California, Davis.
- Grainger, J.L. 1978. Activation of the sea urchin egg: the role of the cell surface and the intracellular environment. Univ. of California, Berkeley.
- Greenway, M. 1976. The production and utilization of *Thalassia testudinum* König in Kingston Harbour, Jamaica. Univ. of the West Indies. (includes *Lytechinus variegatus*).
- Hamada, S.H. 1976. The morphological events during the self-reassembly of the sea urchin embryo in culture. Oregon State Univ.
- Harpold, M.M. 1976. The evolution of repetitive and non-repetitive DNA sequences in sea urchins. Tulane Univ.
- Hobart, P.M. 1978. DNA polymerase in sea urchin embryos: purification, properties, and changes during early development. Wesleyan Univ.
- Innis, M.A. 1976. Regulation of mitochondrial biosynthetic activity in early sea urchin development. Tulane Univ.
- Kaumeyer, J.R. 1978. Messenger ribonucleoprotein particles in unfertilized sea urchin eggs. Indiana Univ.
- Kidd, P.M. 1976. The ultrastructure of the sea urchin egg surface complex before and after isolation. Univ. of California, Berkeley.
- Lane, J.M. 1977. Bioenergetics of the sand dollar, *Mellita quinquiesperforata*. Univ. of South Florida.
- Lee, H., II. 1978. Seasonality, predation, and opportunism in high diversity soft bottom communities in the Gulf of Panama. Univ. of North Carolina, Chapel Hill (includes ophiuroids).
- Lesink, C. 1962. The history and status of sea otters in Alaska. Purdue Univ. (includes *Strongylocentrotus polyacanthus*).

- Lessner, A.L. 1978. Factors affecting the distribution and abundance of the sea urchin *Centrostephanus coronatus*. Univ. of Southern California.
- Lessios, H.A. 1979. Molecular, morphological and ecological divergence of shallow-water sea urchins separated by the Isthmus of Panama. Yale Univ.
- Lilly, G.R. 1975. The influence of diet on the growth and bioenergetics of the tropical sea urchin, *Tripneustes ventricosus* (Lamarck). Univ. of British Columbia.
- Lloyd, M.C. 1972. The biology of *Searlesia dira* (Mollusca: Gastropoda) with emphasis on feeding. Univ. of Michigan (echinoderms eaten).
- Lowe, E.F. 1978. Relationships between biochemical and caloric composition and reproductive cycle in *Asterias vulgaris* (Echinodermata: Asteroidea) from the Gulf of Maine. Univ. of Maine.
- Maxon, W.R. 1978. Histone mRNA metabolism during early sea urchin development. Univ. of California, Berkeley.
- McColl, R.S. 1976. Patterns of gene expression in the developing sea urchin. Purdue Univ.
- Nishioka, D.J. 1976. The initiation of cell cycle events in ammonia-treated eggs and merogons of the sea urchin. Univ. of California, Berkeley.
- Overton, G.C. 1978. An analysis of the structure and heterogeneity of histone genes in the sea urchin, *Strongylocentrotus purpuratus*. Johns Hopkins Univ.
- Pace, D.R. 1976. Environmental control of the red sea urchin, *Strongylocentrotus franciscanus*, vertical distribution in Berkeley Sound, British Columbia, Simon Fraser Univ.
- Palmisano, J.F. 1975. Sea otter predation: its role in rocky intertidal community structure at Amchitka and other Aleutian Islands. Univ. of Washington.
- Patent, D.W. 1968. The general and reproductive biology of the basketstar *Gorgoncephalus caryi*. Univ. of California, Berkeley.
- Pointer, D.A. 1978. Blastocoelic fluid of the sea urchin embryo: its components and their significance in development. Univ. of California, Berkeley.
- Rapraeger, A.C. 1978. A postulated mechanism for zinc-animalization of sea urchin embryos. Univ. of California, Berkeley.
- Reylin, R.B. 1976. Mitochondrial messenger RNA synthesis during early sea urchin development. Univ. of Virginia.
- Rodgers, W.H. 1979. RNA sequence information in early determined blastomeres of the sea urchin embryo. Univ. of Rochester, N.Y.
- Rosenberg, M.P. 1978. Relationship of changes in the cortical layers to the resumption of meiosis in starfish-oocytes: hormonal and cation requirements. Univ. of Toledo, Ohio.
- Sammarco, P.W. 1977. The effects of grazing by *Diadema antillarum* Philippi on a shallow-water coral reef community. State Univ. of New York, Stony Brook.

- Schroeter, S.C. 1978. Experimental studies of competition as a factors affecting the distribution and abundance of purple sea urchins, *Strongylocentrotus purpuratus* (Stimpson). Univ. of California, Santa Barbara.
- Serafy, D.K. 1973. The systematics and ecology of the Gulf of Mexico echinoids collected during Project Hourglass, August 1965 through November 1967. Univ. of Maine.
- Showman, R.M. 1979. The nature of the echinoid hatching enzyme and the time of origin of its messenger RNA. Univ. of Washington, Seattle.
- Sittman, D.B. 1978. The DNA-dependent RNA-polymerase of the sea urchin, *Lytechinus variegatus*. Univ. of North Carolina, Chapel Hill.
- Sluder, 1976. Spindle microsomes and the cell cycle in the eggs of the sea urchin *Lytechinus variegatus*. Univ. of Pennsylvania.
- Smith, D.P. 1975. Studies on sea urchins: I. Movement and behavior in the long-spines Caribbean sea-urchin *Diadema antillarum* (Echinodermata: Echinoidea); II. Straight-line conduction without straight-line connection: a model for the echinoid nerve net. Univ. of Wisconsin, Madison.
- Spies, R.B. 1971. Contribution on the morphology, reproduction and development of *Flabelliderma commensalis* (Moore, 1909) (Annelida: Polychaeta: Flabelligeridae). Univ. of California, Santa Barbara. (commensal on asteroids)
- Smith, R.H. 1971. Reproductive biology of a brooding sea star *Lepasterias pusilla* (Fisher) in the Monterey Bay region. Stanford Univ.
- Sousa, W.P. 1977. Disturbance and ecological succession in marine intertidal boulder fields. Univ. of California, Santa Barbara. (includes *Strongylocentrotus purpuratus*).
- Speel, J.A. 1976. Comatulid crinoids from R/V Eltanin cruises in the southern oceans. Univ. of Maine.
- Stancyk, S.E. 1974. Life history patterns of three estuarine brittlestars (Ophiuroidea) at Cedar Key, Florida. Univ. of Florida.
- Timko, P.L. 1975. High density aggregation in *Dendraster excentricus* (Eschscholtz): analysis of strategies and benefits concerning growth, age structure, feeding, hydrodynamics and reproduction. Univ. of California, Los Angeles.
- Turk, T.R. 1978. The ecological role of the predatory seastar *Astrometis sertulifera* in a San Diego rocky intertidal community. Univ. of California, Riverside/San Diego State Univ.
- Turner, R.L. 1977. Composition of echinoderm eggs and juveniles: a nutritional approach to the study of life history patterns. Univ. of South Florida.
- Vanblaricom, G.R. 1978. Disturbance, predation, and resource allocation in a high-energy sublittoral sand-bottom ecosystem: experimental analysis of critical structuring processes for the infaunal community. Univ. of California, San Diego (includes *Astropecten*).
- Van Veldhuizen, H.D. 1978. Feeding biology of subtidal *Pisaster brevispinus* on soft substrate in Bodega Harbor, California. Univ. of California, Davis.

Williams, A.H. 1977. Three-way competition in a patchy back-reef environment. Univ. of North Carolina, Chapel Hill. (includes *Diadema antillarum*).

Wold, B.J. 1978. Studies of structural gene transcripts in sea urchin embryos and adult tissues. California Inst. Technology.

Zimmerman, A.M. 1972. Cell division: pressure-temperature analysis of effects of sulfhydryl reagents on the cortical plasmagel structure and furrowing strength of dividing eggs (*Arbacia* and *Chaetopterus*). New York Univ.

M.A. Theses

Blackman, L.D. The determination of adenosine 3':5' monophosphate in unfertilized *Strongylocentrotus purpuratus* (Stimpson) eggs by a competitive protein binding assay. California State Univ., Long Beach.

Bros, W.E. 1978. Vertical zonation of three species of California limpets (*Acmaeidae*) as a function of predation. Univ. of the Pacific. (includes *Pisaster ochraceus*).

Bryon, R.R. 1972. The effect of globiferous pedicellariae toxin from the sea urchin, *Strongylocentrotus purpuratus* (Stimpson), on the peripheral nervous system in the lined shore crab, *Pachygrapsus crassipes* (Randall). California State Univ., Long Beach.

Diehl, W.J., III. 1978. Effect of nutrition on the excretion rate of soluble nitrogenous products of *Luidia clathrata* (Echinodermata; Asteroidea). Univ. of South Florida.

Eaton, C.M. 1971. The reproductive and feeding biology of the prosobranch gastropod *Fusitriton oregonensis* (Redfield) (Family Cymatidae). Univ. of Washington. (includes predation on *Strongylocentrotus*).

Fraser, R.C. 1973. The isolation of a cholinometric compound from the globiferous pedicellariae of *Lytechinus pictus* (Verrill). California State Univ., Long Beach.

Greer, M.B. 1966. The absorption of amino acids across the guts of chitons and sea cucumbers. Univ. of Houston.

Jacobs, G.P. 1975. Effect of sea urchin toxins on electrophysiology and ultra-structure of *Pachygrapsus crassipes* (Randall) neuromuscular system. California State Univ., Long Beach.

Jillson, D. 1973. The predatory behavior of *Pisaster ochraceus*. Univ. of the Pacific.

Lewis, R.L. 1974. Studies in the inadunate crinoid family *Pirasocrinidae*. Univ. of Iowa.

Littrell, J.A. 1977. Field and laboratory studies of the pedicellariae of *Lytechinus variegatus* (Lamarck, 1816) (Echinodermata: Echinoidea). Univ. of Puerto Rico, Mayaguez.

Mann, M.L. 1964. Comparative embryonic temperature tolerances of two species of sea urchin and related acclimation studies. Duke Univ.

- Maxon, W.R. 1972. Responses of selected molluscs to the feeding behavior of the seastar, *Pisaster ochraceus*. California State Univ., Fullerton.
- McEdward, L.R. 1979. Respiratory electron transport activity during larval development of *Lytechinus variegatus* Lamarck (Echinodermata: Echinoidea). Univ. of South Florida.
- Messing, C.G. 1975. The systematics and distribution of the Crinoidea Comatulida (exclusive of the Macrophreatina) collected by the R/V CERDA in the Straits of Florida and adjacent waters. Univ. of Miami.
- Murdoch, J.D. 1976. The importance of substratum characteristics on the ability to burrow of two species of amphiuroid ophiuroids (Echinodermata). Univ. of South Florida.
- Nash, W.W. 1978. The uptake and intracellular distribution of lead in sea urchin embryos. California State Univ., Long Beach.
- Rosenberg, V. 1978. Isozyme variation and genetic differentiation in the decorator sea urchin, *Lytechinus variegatus* (Lamarck, 1816). Univ. of South Florida.
- Schultz, T.W. 1973. Changes in the adenine nucleotide levels during 1-methyl-adenine induced maturation of starfish oocytes. California State Univ., Fullerton.
- Smith, R.D. The feeding habits of the sand-dollar *Echinarachnius parma* (Lamarck). Univ. of Maine.
- Sumich, J.L. 1970. Growth of a sea urchin, *Allocentrotus fragilis*, at different depths off the Oregon coast. Oregon State Univ.
- Webman, E.J. 1978. Measurements of the levels of cyclic AMP and cyclic GMP in sea urchin eggs treated with ammonium. California State Univ., Long Beach.

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Masters' and Ph.D. Dissertations

Supplement

M.A. or M.S.

Corry, Barbara G. 1974. An ultrastructural study of muscle in tube feet of selected ophiuroids. University of Victoria.

Emerson, C.J. 1977. Developmental morphology of the optic cushion and ocelli of the sea star Leptasterias polaris (Muller and Troschel). Memorial University of Newfoundland.

Ernest, R.G. 1979. Reproductive variability in Lytechinus variegatus (Echinodermata: Echinoidea) from different habitats in a Florida west coast estuary. University of South Florida.

Tomey, D.A. 1978. The distribution, sediment preference and reproductive periodicity of Leptosynapta tenuis (Ayres) (Echinodermata: Holothuroidea) University of Bridgeport, Connecticut.

Ph.D.

Marcus, Nancy 1976. Genotypic and phenotypic variation in the sea urchin Arbacia punctulata. Yale University.

Pagett, R.M. 1978. Some physiological and ecological aspects of the penetration into brackish water by certain members of the Ophiuroidea. University of London.

Sloan, N.A. 1977. An experimental study of the predatory and social behavior of Crossaster papposus (L.). Queen Mary College, University of London.

Wolfe, Tracey J. 1978. Aspects of the biology of Astrophyton muricatum (Lamarck, 1816) (Ophiuroidea: Gorgonocephalidae). University of Puerto Rico.

Recent Publications and Papers in Press

This list is based upon Newsletter replies plus reprints received. It includes papers published in 1978 or later. Please note that many of the papers listed below as "in press" will already have been published.

Albuquerque. Amphiuridae.

Anderson, J.M. 1978. Studies on functional morphology in the digestive system of Oreaster reticulatus (L.). Biol. Bull., 154: 1-14.

_____. Histological studies on the pyloric stomach and its appendages in Oreaster reticulatus (L.). Biol. Bull. (in press). (should appear February 1979)

Arendt, Y.A. 1978. ~~Some Permian crinoids from Urals and~~ Timer. Ann. Soc. Paleont. USSR, t.21, p 255-266.

_____. Right-left forms in crinoids. (with S.V. Rozhnov. Tbilisi, in press).

Arnaud, P.M. 1977. Adaptations within the Antarctic marine benthic ecosystem, pp. 135-157, in: LLANO G.A., ed., Adaptations within Antarctic ecosystems.

Ausich, W.I. 1978. Niche partitioning in Lower Mississippian crinoid communities. Geol. Soc. Amer. Abstracts with Programs 10(6): 361.

_____. 1978. Pisocrinus from California, Nevada, Utah, and Gaspe Peninsula. J. Paleontol. 52(2): 487-491.

Kelly, S.M., and W.I. Ausich. 1978. A new Lower Ordovician disparid crinoid from Utah. J. Paleontol. 52(4): 916-920.

Austin, W.C. and M. Hadfield. 1979 (in press). Ophiuroidea: The Brittle stars. Chap. 10 IN: P.H. Morris, D.P. Abbott and G. Haderlie (eds.) Intertidal Invertebrates of California. Stanford University Press, Stanford.

Baker, A.N. (in press) Some ophiuroidea from the Tasman Sea and adjacent waters. N.Z.J. Zoology.

Bay-Schmith, E. and C. Jana, 1977. Balanus tintinnabulum concinnus Darwin, 1854, epibionte poco comun del erizo negro, Tetrapygyus niger (Molina, 1782). Bol. Soc. Biol. de Concepcion 51(1): 59-61.

- _____. (in press) Ciclo anual de reproduccion de Arbacia spatuligera (Valenciennes, 1846) en la Bahia de Concepcion, Chile. (Arbaciidae, Echinoidea).
- Bell, B.M. and J. Sprinkle. 1978. Totiglobus, and Unusual New Edrioasteroid form the Middle Cambrian of Nevada. J. Paleontol. 52(2): 243-266.
- Sprinkle, J. and B.M. Bell. 1978. Paedomorphosis in Edrioasteroid Echinoderms. Paleobiology 4(1): 82-88.
- Haugh, B.N. and B.M. Bell. 1978. Visceral Paleobiology, Classification and Geneology of Echinoderms. G.S.A. Abstracts 10(7): 417-418.
- Belyaev and Mironov. 1978. The holothurians of the genus Myriotrochus from the southern part of the Atlantic Ocena. Transect. Inst. of Oceanology Acad. Sci. USSR, vol. II3: 198-207 + I P1.
- _____. (in press). The new species of Myriotrochidae from the West and South Pacific. Transect. Inst. Oceanol. Acad. Sci. USSR.
- Belyaev. (in press). The distribution and origin Myriotrochidae (Holothurioidea: Apoda) and the ways of forming of the deep-sea trenches fauna. IV All-Union Colloquium on the Echinodermata (Theses of reports).
- Binyon. Ion movements and oxygen requirements of Asteroids-- A theoretical consideration.
- Birkeland, C., P.K. Dayton, and N.A. Engstrom. 1979. A stable system of predation on a holothurian by four asteroids and their top predator. Papers from the Echinoderm Conference, Sydney, 1978. Records of the Australian Mus. (in press).
- Blake, D.B. 1978. The taxonomic position of the modern sea star Cistina Gray, 1840. Proc. Biol. Soc. Wash. 91(1)239-241.
- _____. 1978. Sea star ossicle morphology: taxonomic implications. Thalassia Jugoslaviça 12(1) 21-29.
- _____. In press. The affinities and origins of the crown-of-thorns sea star Acanthaster Gervais. Jour. Nat. Hist.
- _____. In press. On the affinities of three small sea star families. Jour. Nat. Hist.

- Bockelie. 1976. Variability of ambulacral structures in some diploporite cystoids. *Thalassia Jugoslavica* 12(1).
- _____. The Oslo Region during the early Palaeozoic. (in Ramberg, I.B. & Neuman, E.R. ed.): Tectonics and Geophysics of Continental rifts. Reidel, Dordrecht, Holland.
- _____. 1979. Taxonomy, functional morphology, and palaeoecology of the Ordovician cystoid family Hemicosmitidae. *Palaeontology* 22(2).
- _____. In press. Celticystis n. gen., a gomphocystitid cystoid from the Silurian of Sweden. *GFF* (Stockholm).
- Branstrator, J. W. In press. Astroidea in Ordovician Ffunas of Kentucky. U.S. Geol. Sur. Prof. Paper No. 1066 F.
- _____. In press. Astroidea in Biostratigraphy of the Bromide Formation of Oklahoma. Univ. Kansas Paleont. Contribs. (Ed. by James Sprinkle).
- Brett, C.E. 1978a. Description and paleoecology of a new Lower Silurian camerate crinoid. *J. Paleont.* 52(1):97-109.
- _____. 1978b. Attachment structures in the rhombiferan cystoid Caryocrinites and their paleobiological implications. *J. Paleont.* 52(3):717-726.
- _____. 1978c. Pelmatozoan echinoderms on Silurian patch reefs from Western New York and Ontario. *GSA Abstracts with Programs* 10(4):247.
- _____. 1978d. Host-specific pit-forming epizoans on Silurian crinoids. *Lethaia* 11(3):217-231.
- Brett, C.E. and W.D. Liddell. 1978. Preservation and paleoecology of a Middle Ordovician hardground community. *Paleobiology* 4(3):329-348.
- Brito. Cenozoic Clypeasteroids of Brazil - to be published in Brazilian Academy of Sciences.
- Broadhead, T.W. 1978. The Ordovician cystoid, Amecystis cordiformis Sinclair. *Can. J. Earth Sci.* 15(1):173-174.
- Broadhead, T.W., and H.L. Strimple. 1978. Systematics and distribution of the Callocystitidae (Echinodermata, Rhombifera). *J. Paleontol.* 52(1):164-177.

- Broadhead, T.W. 1978. Carboniferous camerate crinoid Subfamily Dichocrininae. Unpublished Ph.D. dissertation, The University of Iowa. 246 p., 15 pl.
- Broerckjes, J.J.S. and G. Posthuma. 1978. Direct visualization of the haemal system in starfish by a staining procedure. *Eseperientia* 34, 1243-1245.
- Brower and Veinus. 1978. Evolution of the Melocrinitidae. *Thalassia Jugoslavica*, 12(1):41-49.
- _____. Chapter on long-armed dicyclic inadunates. (in press) In Echinoderms from the Bromide Limestone, edited by James Sprinkle, University of Kansas Paleontological Contributions.
- _____. (In press). Chapter on calceocrinids. In Echinoderms from the Bromide Limestone, edited by James Sprinkle, University of Kansas Paleontological Contributions.
- Brower, J.C., C.R. Clement and Julia Veinus. 1978. Multivariate analysis of allometry using morphometric measurements. In Recent advances in geomathematics - an international symposium, edited by D.F. Merriam, Pergamon Press, pp. 61-80.
- Brower, J.C. and Julia Veinus. 1978. Multivariate analysis of allometry using point coordinates. *Jour. Paleo.*, 52(5):1037-1053.
- _____. 1978. Middle Ordovician crinoids from the Twin Cities Area of Minnesota. *Bull. of American Paleontology*, 74(304):372-506, pl.11-25.
- Brower, J.C. 1978. Ontogeny of camerate crinoids. *Treatise on invertebrate paleontology*, Part T, Echinodermata 2, pp. 244-263.
- Brumbaugh. Holothuroidea: Sea Cucumbers. In Morris, Abbott, and Haderlie, Intertidal Invertebrates of California. Stanford University Press. To be published by Fall '79 (hopefully).
- Burke. 1978. The Structure of the Nervous System of the pluteus larva of Strongylocentrotus purpuratus.
- Burke and Chia. 1978. Echinoderm Metamorphosis: Fate of Larval Structures. In Settlement and Metamorphosis of Marine Invertebrates: Elsevier.
- Cameron, R.A. and Hinegardner, R.T. 1974. Initiation of metamorphosis in laboratory cultured sea urchins. *Biol. Bull.* 146:335-342.

. 1978. Early events in sea urchin metamorphosis, description and analysis. J. Morph. 157:21-32.

Campbell, A.C. (with N.A. Sloan) (in press). Perception of Food in Nutrition of Echinoderms. eds. Jangoux, M. and Lawrence, J.M.

Cannon, L.R.G. (1978) *Pterastericola vivipara* n.sp., a parasitic turbellarian (Rhabdocoela: Pterastericolidae) from the Crown-of thorns starfish, *Acanthaster planci*. Memoirs of the Queensland Museum 18: 179-183.

Caso. "Los Equinodermos en relacion con el hombre" (ya publicads)

. Monografia sobre "Los Equinoideos del Pacifico de Mexico. Parte 1a. "Cidaroida y Aulodonta" (in press)

. Monografia sobre "Los Equinoideos del Pacifico de Mexico. Parte 2a. Stiridonta y Camarodonta (in press).

. Los Equinodermos de la bahia de Mazatlain Sin. (in press).

. Descripcion de una nueva especie de Ofiuroideo de la Laguna de Terminos *Amphiodia guillermosoberoni* sp. nov. (in press).

. Los Equinodermos de la bahia de La Paz y la isle del Espiritu San to B.C.

. Los Equinoideos del Pacifico de Mexico. Parte 4a. Order Cassiduloida 4. Spatangoida.

Castilla. (in press). Sublittoral observations of behavior in the Chilean "loco" *Concholepos concholepos* (Mollusca: Gastropoda: Muricidae). The Veliger.

Castro, P. 1978. Settlement and habitat selection in the larvae of *Echinoecus pentagonus* (A. Milne Edwards), a brachyuran crab symbiotic with sea urchins. J. Exp. Mar. Biol. Ecol., 34:259-270. In: CRC Handbook Series Nutrition and Food.

Challis. (In press). Miocene Echinoid Biofacies of the Maltese Islands.

Chauvel. 1977. Note complementaire sur les Cystoides Rhombiferes de l'Ordovicien marocain. Not. Serv. geol. Maroc RABAT, T.38 n°263.

. 1977. Calix sedgwicki et l'appareil ambulacraire des Diploporites C.R.som. Soc.geol. France fasc. 6 p. 314-317.

- _____. 1978. Complements sur les Echinodermes du Paleoz. marocain (Diploporites, Eocrinoïdes, Edrioast.) Not. Serv. geol. Maroc RABAT T.39, n° 272.
- _____. 1978. Les Echinoderms (Cyst. Asteroz. Homaloz.) de l'Ordovicien des Monts de Toledo ?Estudios geol. Madrid, T.34 (avec B. Melendez). sous presse in Geobios (Lyon): Sur quelques Echinodermes (Cystoïdes et Crinoïdes de l'Ashgill d'Aragon (Espagne) avec J. Le Menn.
- _____. 1977. Echinodermes (Homaloxoa: Cornuta et Mitrata) nouveaux pour l'Ordovicien du Massif armoricain et conséquences paleogeographiques. Geobios (Lyon) n° 10, fasc. 1 (avec Joel NION).
- Cherbonnier. Faune de Madagascar, 48. Echinodermes: Ophiurides. Editions du CNRS, Paris, 1978: 1-272, 77 textfig., 17 pl.
- _____. (sous presse). Holothuries des Philippines.
- _____. (sous presse). Holothuries de Nouvelle-Caledonie.
- Chia, F.S. and R.D. Burke. 1978. Echinoderm metamorphosis: fate of larval structures. In Chia, F.S. and M.E. Rice (eds.) Settlement and Metamorphosis of Marine Invertebrate Larvae. Elsevier/North Holland Press, Amsterdam. pp. 219-233.
- Chia, F.S. and L. Bickell. Testis, spermatogenesis, sperm function, and spawning in echinoderms. In Adiyodi and Adiyodi (eds.) Reproductive Biology of Invertebrates, Vol. II. John Wiley and Sons Inc. 140 MS pages.
- Clark, A.M. (in press), Inter-relationships of recent stalked non-Isocrinid Crinoidea. Rec. Aust. Mus.
- Codoceo. (in press). Archibenthal Asterozoa of Central Chile. Anales del Museo de Historia Natural Valparaiso:
- _____. Consideraciones biogeograficas y ecologicas de equinodermos arquibentales de Chile Central (con excepcion de Crinoidea), in press in the volume of the V Simposio Latinoamericano sobre Oceanografia biologica realizado en la Universidade de Sao Paulo, Brasil, November 1978.
- _____. Segundo registro de Ophiomastus molinae Castillo 1968, publicado en el Noticiario Mensual Museo Nacional Historia Natural, No. 261. Mayo 1978.
- Cousineau. Improved method for nucleic acid corraction and analysis. Developing sea urchin eggs. in press (1979).

- Crawford, B.J. and F.S. Chia (1978). Coelomic pouch formation in the starfish Pisaster ochraceus. J. Morph. 157: 99-120.
- Crump, R.G. & Emson, R.H., 1978. Some aspects of the population dynamics of Asterina gibbosa Pennant. J. Mar. Biol. Ass. U.K. Vol. 58(2): 451-466.
- Emson, R.H. & Crump, R.G., 1979. Description of a new species of Asterina (Asteroidea), with an account of its ecology. J. Mar. Biol. Ass. U.K., Vol. 59(1): 77-94.
- Cutress, Bertha M. (In press). Cretaceous and Tertiary Cidaroida (Echinodermata: Echinoidea) of the Caribbean area. Bull. Amer. Paleontol., V. 77, no. 309.
- Dartnall. (In press). Fauna of Tasmania: Echinoderms.
- Dearborn, J.H. and Turner, R.L. 1978. Organic and inorganic composition of post-metamorphic growth stages of Ophionotus hexactis (E.A. Smith). (Echinodermata: Ophiuroidea) during intraovarian incubation. J. exp. mar. Biol. Ecol., 36: 41-51.
- de Celis. The Asteroids of Marinduque Island, Philippines. (in press: Acta Manilana Journal to be released 6/79.
- Devaney. (In press). Studies on Ophiocomid brittlestars II: A review of the genus Ophiomastix. Micronesica.
- Dix. Reproduction in Tasmania populations of Heliocidaris erythrogramma (Echinodermata: Echinometridae) Aust. J. Mar. Freshwat. Res. 28: 509-20.
- _____. Survey of Tasmanian sea urchin resources. Tas. Fresh. Res. 21: 1-14.
- Doi. Escape response of snails from predatory Astropecten (now preparing to Pub. Amakusa Mar. Biol. Lab.)
- Donnay. Abstracts at G.S.A. meetings with students.
- Emson, R.H. & Crump, R.G. Thalassia Jugoslavica 12(1) 99-108. 1976. Brooding in Asterina gibbosa.
- Crump, R. G. and Emson R.H. J.M.B.A. (n.k.) 58. 451-466 (1978). Some aspects of the population dynamics of Asterina gibbosa.
- Emson, R. H. and Crump, R. G. J.M.B.A. (n.k.) 59, 77-94 (1979) Asteroidea Description of a new species of Astenna with an account of its ecology.

Emson, R.H. Proceedings 13th European Symposium on Marine Biology (1979). The importance of tidal and day and night cycles in the distribution of British Asterinids. (In press).

Fankboner and R.G.B. Reid. Protein digestion in the sea gooseberry Pleurobranchia bachei A. Agassiz (Ctenophora: Tentaculata). 1979.

Fankboner, P.V. 1978. Self-suturing by a synaptid sea cucumber (Holothuroidea: Echinodermata) *Experientia* 34, 729.

Fankboner, P.V., and M.E. de Burgh. 1978. Comparative rates of dissolved organic carbon accumulation by juveniles and pediveligers of the Japanese oyster Crassostrea gigas Thunberg. *Aquaculture*, 13, 205-212.

Fankboner, P.V. 1978. Suspension-feeding mechanisms of the armoured sea cucumber Psolus chitinoidea Clark. *J.exp.mar. Biol.Ecol.*, Vol. 31, pp. 11-25.

Feder, H.M. and S.C. Jewett. 1978. Survey of the Epifaunal invertebrates of Norton Sound, Southeastern Chukchi Sea, and Kotzebue Sound. *IMS Report R78-1*, 124 pp.

No papers in press. One Technical report available from Frsht. Mar. Sci, U. of Alaska.

Fenaux. Paper in press: Grazing of meromicrozooplanktonic echinoderm larvae (Paracentrotus lividus and Arbacia lixula) on naturally-occurring particulate matter (F. Rassoulzadegan and L. Fenaux).

Feral. Evolution des teneurs en hydrocarbures chez quelques organismes marins du Nord-Finistère depuis l'échouage de l'Amoco-Cadiz et comparaison des méthodes de dosage en infra-rouge et en spectrofluorimétrie e.r. hebdomadaire. *Seanc. Acad. Sc. Paris (D)* 1979, 288:713-716. (en collaboration avec P. Fusey, G. Gaill, E. Lopez, E. Martelly, J. Oudot, et M. Van Praet).

Papers in press. Variation de la spiculation au cours de la croissance chez Neopentadactyla mixta (Ostergren) 1898 (Holothuroidea, Phyllophoridae). *Cahiers de Biol. mar.*, 1980.

(in press). Résultats scientifiques de l'expédition MUSORSTOM aux îles Philippines (18-28 mars 1976): Holothuries, vol. 1., publication ORSTOM. (en collaboration avec G. Cherbonnier).

Ferber, I., 1976. Functional morphology of Lovenia elongata (Gray) (Echinoidea: Spatanoida) Thalassia Jugoslavica 12(1): 123-128.

Ferguson, J. Ingestion and assimilation of dissolved amino acids by a starfish. Comp. Biochem. Physiol. 62A: 343-346. 1979.

Fernandez. Distribution of Holothuria avenicola Semper in the Bahamas with observations on habitat, behavior, and feeding activity (Echinodermata: Holothuroidea) (in press) Bull. Mar. Sci. 30(1).

Foster, R.J. and G.M. Philip. 1978. Tertiary holasteroid echinoids from Australia and New Zealand. Palaeontology v.21 pt. 4: pp. 791-822, pla 85-93.

Frankel. 1978. Evidence from the Great Barrier Reef of Ancient Acanthaster aggregations. Atoll. Res. Bull 220, pp. 75-93.

Gage, J.D. Animals in deep sea sediments. Biol. N. Soc. Edin. 76B 77-93.

———. Macrobenthic community structure in the Rockall Trough. Am. Bio. (in press).

Gage, J.D. and P. A. Tyler. Reproductive ecology of deep sea ophiuroids from the Rockall Trough. Per. XI European Mar. Biological Symp. (in press.)

Gage, J.D., R.H. Lightfoot, Margaret Pearson and P.A. Tyler. An Abyssal time-series I. Introduction, sampling methods and sample comparability. Mar. Biol. (in press).

Gage, J.D. and P.A. Tyler. An abyssal five senses II. Reproduction and growth of the deep-sea brittlestar Ophiura liungreani (Lyman). Mar. Biol. (in press).

Galleffi, J., 1977. Los yacimientos con equinidos del nivel "Homes Morts" entre los rios Noguera Pallaresa y N. Ribagorzana (Cretacico superior del Prepirineo de Lerida). Publicaciones de Geologia, No. 6, 92 pp., 3 figs., lams. I-XII. Universidad Autonoma de Barcelona. Bellaterra.

Geronimo. Some Common Intertidal Ophiuroids from Puerto Galera, Mindoro".

———. Philippine Biota Feb. 1978 Vol. XI No. 3

- _____. Philippine Biota May 1978 Vol. X11 No. 4 pp. 113-128.
- Glynn, P.W., G.M. Wellington, and C. Birkeland. 1979.
Coral reef growth in the Galapagos: Limitation by
sea urchins. *Science* 203:47-49.
- Goldschmid, A. and Bachmann, S.. 1978. Fine structure
of the axial complex of *Spaerechinus granularis* (Lam.)
(Echinodermata: Echinoidea). *Cell Tiss. Res.* 193,
107-123.
- _____. 1978. Ultrastructural, Fluorescence microscopic
and microfluorimetric study on the innervation of the
axial complex in the sea urchin *Sphaerechinus granularis*
(Lam.). *Cell. Tiss. Res.* 194, 315-326.
- Gooding. From a reprint request, I gather Winston Ponder's
and my work on eulimids associated with West Pacific
diadematids was published in Pacific Science, 1978,
32(2): 157-181!
- Gras, H. & W. Weber. 1978. Aspects of light-sensitivity
and ultrastructure of chromatophores of the sea urchin
Centrostephanus longispinus Verh. Dtsch. Zool. Ges., 281.
- A dissertation on this topic will be finished in 1979.
- Guille, Alain. 1978. Asterides et Ophiurides littorales
de la region d'Amboine (Indonesie). Ann. Inst. Oceanogr.,
Paris, 54 (1):47-74, 2 pls, 4 figs. (avec M. Jangoux.)
- _____. Faune de Madagascar. 48. Echinodermes: Ophiurides.
CNRS edit. : 1-272, 61 figs., 17 pls. 1978. (avec
G. Cherbonnier).
- _____. (sous presse). Metabolismes oxydatifs compares de
l'oursin *Abatus cordatus* et de son biotope aux Iles
Kerguelen. MemMus. nat. Hist. nat., Paris. (avec P.
Lasserre).
- _____. (in presse). Echinoderms of the Kerguelen Islands.
New quantitative, taxonomic and biogeographic data.
Rec. Australian Mus. (Proc. Thd Echinoderms Biol.
Conf., Sydney, 1978).
- _____. (in press). *Astrotoma drachi*, nouvelle espece bathyale
d'Ophiuride Gorgonocephalidae des Iles Philippines.
Vie Milieu (Jubilee du Professeur DRACH).
- _____. (in press). Ophiurides de la campagne Musorstom
aux Iles Philippines. Ann. Inst. Oceanogr., Paris.
- Grunbaum, Bergman, Abbott, and Ogden. 1978. Intraspecific

agonistic behavior in the rock-boring sea urchin
Echinometra lucunter (L.) (Echinodermata: Echinoidea).
Bull. Mar. Sci. 28(1): 181-188.

Hamada, S.H. 1978. Cell Migration during the Reassembly
of Dissociated Embryonic Cells of Sea Urchins. *Experimental Cell Biol.* 46: 310-324.

———. 1979. Phagocytosis and Resorption during the Reassembly
of Dissociated Embryonic Cells of Sea Urchins. *Experimental Cell Biol.* 95: (in press, March 1979).

———. Cell Contact Formation during the Self-Reassembly
of Embryonic Cells of the Sea Urchin. *Development, Growth and Differentiation* (in press, 1979).

Hansen. 1978. *Scotothuria herringi*, a new genus and species
of bathypelagic holothurians (Holothurioidae, Aspidochirota, Synallactidae). *Steenstrupia* 5: 33-39.

Haude, R., Bonik, K and Gutmann, W.F. 1978. Stachelhauter
mit Kiemen-Apparat: Der Beleg für die Ableitung der
Echinodermen von Chordatiern. —Naur u. Museum, 108,
211-214.

———. (in press). Reconstruction of the evolution of
'branchio-echinoderms'. —Rec. Aust. Mus.

Haugh, B.N. 1979. Late Ordovician Channel-dwelling crinoids
from Southern Ontario, Canada. *American Museum Novitates*
2665: 1-25.

———. (in press). 1980: Echinodermata in *McGraw-Hill
Yearbook of Science and Technology, 1980*.

Gaugh, B.N. and B.M. Bell. (in press). 1979: Fossilized
Viscera in Primitive Echinoderms. *Science*.

———. 1978. Visceral Paleobiology, Classification and
Genealogy of Echinoderms. *Geol. Soc. Amer. Abstr. with
Prog.* 10(7): 417-418.

Hendler. Reproductive periodicity of ophiuroids (Echinodermata: Ophiuroidea) on the Atlantic and Pacific
Coasts of Panama. pp. 145-156 In: *Reproductive Ecology
of Marine Invertebrates*. S. Stancyk, ed. No. 9 The Belle
Baruch Library in Marine Science.

———. Sex reversal and viviparity in *Ophiolepis kieri*,
n.sp., with notes on viviparous brittlestars from the
Caribbean (Echinodermata: Ophiuroidea). *Proceedings
of the Biological Soc. of Washington*.

- Hilgers. 1976. Structural and functional analysis of ophiocephalous pedicellariae from *Sphaerechinus granularis* Lam., *Echinus acutus* Lam. and *Paracentrotus lividus* Lam. (Echinodermata, Echinoidea). Zoomorphologie.
- Hill. Contraction in a muscle with negligible sarco-plasmic reticulum : the logitudinal retraction of the sea cucumber *Isostichopus badionatus* (Selenka), *Holothuria Aspidochirota*.
- Hill et. al. 1978. J. Expe. Zool., 206:137-150.
- Himmelman, J.H. 1978. Reproductive cycle of the green sea urchin, *Strongylocentrotus droebachiensis*. Can. J. Zool. 56: 1828-1836.
- Hobaus. (in press). Skin Excretion in Sea Urchins. Naturwiss.
- _____. (in press). Bau und Funktion des Nebendarmes regularer Seeigel (Echinoidea: Echinodermata), Structure and function of the siphon of regular sea urchins (Echinoidea: Echinodermata). Zool. Anz. (In German, with English summary)
- Hotchkiss. 1977. Antarctic fossil echinoids - review and current research. 3rd Symposium on Antarctic Geology and Geophysics, Volume of Abstracts - 83.
- _____. 1978. Antarctic and southernmost South American fossil echinoids (progress report). Antarctic Journal of the United States 12(4):81.
- _____. (in press). Early growth stage of a Devonian ophiuroid and its bearing on echinoderm phylogeny. J. nat. Hist.
- _____. (in press). Case studies in the teratology of starfish. Proc.Acad.Nat.Sci.
- _____. (in press). Annotated checklist and distribution of Ophiuroidea at Carrie Bow Cay IMSWE Project volume in prep.
- Imaoka. Three new species of the genus *Pseudostichopus* from the Japanese waters (Holothurioidea: Gephyrothuriidae.)
- _____. 1977. A brief observation of ossicles in a sea cucumber, *Ilyodaemon iijimai* Mitsukuri, Publ. Seto Mar. Biol. Lab. 23:387-391.
- _____. Three new species of the genus *Pseudostichopus*

from the Japanese waters (Holothurioidea: Synallactidae).
Ibid. (in press).

Irimura. 1979. Ophiuroidea of Sado Island, the Sea of Japan. Annual Report of the Sado Marine Biological Station, Niigata University.

James, D.B. 1979. Studies on Indian echinoderms-6. Redescription of two little known holothurians with a note on an early juvenile of Holothuria scabra Jaeger from the Indian seas. J. mar. biol. Ass. India, 18(1): 55-61.

Jangoux, M. 1976. Fonctions des caecums rectaux chez l'étoile de mer, Asterias rubens L. Thalassia Yugoslav., 12(1): 181-186.

Jangoux, M. and J.M. Lawrence. 1977. Qualitative requirements and utilization of nutrients. Echinodermata. I. Food used to maintain post-metamorphic Echinoderms in the laboratory. In C.R.C. Handbook Series in Nutrition and Food (M. Recheige ed., C.R.C. Press Cleveland), ser. D vol. I:371-379.

Jangoux, M. and J.M. Lawrence. 1977. Same title. II. Absorption and assimilation efficiencies of post-metamorphic Echinoderms. Idem: 380-399.

Jangoux, M., J.M. Lawrence and L. Fenaux. 1977. Qualitative nutritional requirements of Echinoderms larvae. Idem: 401-407.

Jangoux, and Sukarno. 1977. Revision du genre Archaster Muller et Troschel (Echinodermata, Asteroidea: Archasteridae) Rev. Zool. afr., 91:817-844.

Jangoux, M. and P. Schaltin. 1977. Le complexe axial de Psammechinus miliaris (Gmelin) (Echinodermata, Echinoidea). Archs. Zool. exp. gén. 118:285-303.

M. Jangoux. 1978. Biological results of the Snellius Expedition. Echinodermata, Asteroidea. Zool. Mededel. Leiden, 52:287-300.

Jangoux, M. 1978. Les étoiles de mer (Echinodermata: Asteroidea) récoltées par le M/V Calamar au large des Guyanes et du Venezuela. Bull. Zool. Mus. Amsterdam, 6(13):93-101.

Jangoux, and E. Van Impe, 1978. The annual pyloric cycle of Asterias rubens L. (Echinodermata, Asteroidea). J. exp. mar. Biol. Ecol., 30:165-185.

- Jangoux, M. C. Massin, and M. Sibuet. 1978. Description d'Ixoreis psychropotae, nov.gen., nov.sp., Coccidie parasite du tube digestif de l'Holothurie abyssale Psychropotes longicauda Theel. Protistologica, 14:253-259.
- Jangoux, M. and A. Guille. 1978. Asterides et Ophiurides littorales de la region d'Amboine (Indonesie). Ann. Inst. Oceanogr. (Paris. 54:47-74.
- Jangoux, M. Etude structurelle et fonctionnelle de l'appareil digestif d' A. rubens. Proc. 3th int. Conf. Echinoderms Sydney (in press).
- Jangoux, M. and M. Deschuyteneer. (in press). Comportement alimentaire et structure digestive de d'Ophioderma longicauda. Ann. Inst. Oceanogr.
- Jangoux, M. Les Asteries recoltees lors de la mission Musorstom dan l'archipel des Philippines. (in press).
- Jaramillo. (in press). Ophiuroidea de los archipelagos de Chiloi y Chouos. Studies on Uestropical Fauna and Environment.
- Jefferies, R. and Lewis, D. 1978. The English Silurian fossil Polacoaptetes forbesianus and the ancestry of the vertebrates Phil. Is. R. Soc. Lond.(3)282(990): 205-323.
- Jefferies, R. (in press). The origin of chardates - a methodological essay. in House, M.R. 1979. The origin of major invertebrate groups. Systematics Association and Academic Press.
- Jensen. 1979. Primary Plates of Sea Urchin Teeth (Echinoidea). Vidensk. Meddr dansk naturh. Foren. 141.
- _____. Lamellae-Needles-Prisms Systems of Sea Urchin Teeth (Echinoidea).
- Jesioneck-Szymanska Wanda. 1978. On a new galeropygid genus Echinoidea from the Jurassic Upper Lias of Morocco. Acta Palaeontologica Polonica v.23, No. 2, pp. 187-193 + pls 13-14. Warsaw.
- _____. 1979. Morphology and microstructure of oligolamellar teeth in Paleozoic echinoids. Part I. Teeth of some early lepidocentrid echinoids. Ibidem vol. 24, no. 2 (in press).
- Kanatani, H. Kubota, J., Nakao, K. Shirai, H. (1977). 1-Methyladenine-producing cell in starfish testis. Exp. Cell Res. 106. 63-70.

- Kanatani, H. and Kishimoto, T. (1977). Lack of species specificity of starfish maturation-promoting factor. *Gen. Comp. Endocrinol.* 33, 31-44.
- Kanatani, H. Kishimoto, T., Kubota, J. (1977). Distribution of maturation-promoting factor in starfish oocyte stratified by centrifugation. *Develop., Growth and Differ.* 19, 283-288.
- Kanatani, H. and Morisawa, M. 1978. Oocyte surface factor responsible for 1-methyladenine-induced oocyte maturation in starfish. *Gamete Res.* 1, 157-164. in press.
- Kanatani, H. and Kubota, J. 1978. Binding of concanavalin A to the surface of starfish follicle cells and production of 1-methyl-adenine. *Develop., Growth and Differ.* 20, 349-351.
- Kanatani, H. Oögenesis: Hormonal mechanism of oocyte maturation. In "Mechanisms of cell change". (J.D. Ebert and T.S. Okada, eds). John Wiley and Sons, Inc. New York. in press.
- Kanatani, H. 1978. Hormones in echinoderms. In "Hormones and evolution". (E.J.W. Barrington, ed). Academic Press, London. in press.
- Katsura, S. and S. Inazumi. 1978. Presence of acid phosphatase activity in heavy bodies of sea urchin eggs. *Developmental Biology*, 66, 480-487.
- Kelly (with W.I. Ausich). 1978. A new Lower Ordovician (Middle Canadian) discoid crinoid from Utah. *J. Paleontol.* 52(4):916-920.
- Kelly (with T.J. Frest and H.L. Strimple). 1978. Additional information on Simplococrinus persculptus. *J. Paleontol.* 52(6):1227-1232.
- Kelly (with J.K. Pope). 1979 (in press). A new camerate crinoid from the Upper Ordovician of Indiana. *J. Paleontol.* 53(2).
- Keough, M.J. and A.J. Dartnall. 1978. A new species of viviparous asterinid asteroid from Eyre Peninsula, South Australia. *Rec. S. Aust. Mus.* 17:407-416.
- Keough, M.J. and A.J. Butler. 1979. The role of asteroid predators in the organization of a sessile community on pier pilings. *Mar. Biol.* 51:167-177.
- Kobayashi. 1977. Preliminary experiments with sea urchin pluteus and metamorphosis in marine pollution bioassay. *Publ. Seto Mar. Biol. Lab.*, 24, 9-21.

Kolata. In press. Diamphidiocystis; a new mitrate "cav-
poid" from the Cincinnati (upper Ordovician) Mag-
uoketa Group in Southern Illinois. Journal of Paleon-
tology.

. In press. Camerate crinoids of the Bromide Form-
ation. University of Kansas Paleontological Contri-
butions.

Kano & Komatsu 1978. Development of the sea-star, Asterina
batheri Goto. Develop., Growth and Differ., 20:107-114.

Komatsu et al. in press. Reproduction and development
of the hermaphroditic sea-star, Asterina minor Hayashi.

LaBarbera, M. 1978. Particle capture by a Pacific brittle
star: experimental test of the aerosol suspension
feeding model. Science. 201:1147-1149.

Lane, G.N. Permian crinoids from Tunisia, Journal of
Paleontology.

Lane, J.M. and J.M. Lawrence. 1979. Gonadal growth and
gametogenesis in the sand dollar Mellita quinquies-
perfoata (Leske, 1778). J. exp. mar. Biol. Ecol.,
38:271-285.

. 1979. The effect of size, temperature, oxygen
level and nutritional condition on oxygen uptake in
the sand dollar Mellita quinquiesperforata (Leske).
Biol. Bull. (in press).

Lawrence, J.M. and P.F. Dehn (in press) The biological
characteristics of Luidia clathrata from Tampa Bay
and the shallow waters of the Gulf of Mexico. Fla.
Sci.

Lawrence, J.M. and Diehl, W.J. (in press). Effect of
nutrition on the excretion rate of soluble nitrogenous
products of Luidia clathrata Comp. Biochem. Physiol.

Lawrence, J.M. et. al. (in press). The response of Luidia
clathrata to hypoxia. Comp. Biochem. Physiol.

. 1979. Malic and Lactic-dehydrogenase activities
and ratio in Luidia clathrata. Comp. Biochem. Physiol.
62B, 127-128.

Lawrence, J.M., and J. Kafri. (in press). Numerical and
caloric representation of the echinoderm fauna of the
rocky shores of Barbados. Mar. Biol.

- Lewis, D.N. and Jefferies. 1978. The English Silurian fossil Placocystiles forbesianus and the ancestry of the vertebrates. Phil. Trans. roy. Soc. Lond. B:282:205-323.
- _____. (in press). Saleria trisuranalis sp.nov. from the Eocene (London Clay) of Essex, England, and notes on its phylogeny. Bull. BM(NH) Miscellania.
- Lewis, Ronald. Archætaxocrinus, new genus, the earliest known flexible crinoid (Whiterockian). J. Paleontol. (in press).
- _____. and H.L. Strimple (Abstract) Carboniferous crinoids with spinose, mushroom-shaped anal sacs. Abstracts of Papers, Ninth International Congress of Carboniferous Stratigraphy and Geology. U. of Illinois, Urbana, Ill.
- Liao. The aspidochirote holothurians of China, with erection of a new genus.
- Liddell, W.D. and Brett, C.E. 1978. Preservation and paleoecology of a Middle Ordovician hardground community. Paleobiology 4(3):329-348.
- Liddell, W.D. (in press). Shallow-water crinoids from Barbados, West Indies. Can. J. Zool.
- Litvinova. (in press). Two papers on the nutrition of the ophiuroids in the Zoologicheskij Zhurnal.
- Lonning, S. and B.E. Hagstrom. 1978. A toxicological evaluation of a plastic oil absorbant. Mar. Poll. Bull. 9:276-278.
- Lonning, S. and Falk-Petersen, 1979. The effects of oil dispersants on marine eggs and larvae. Astarte, in press.
- Lubchenco, J. and B.A. Menge. 1978. Community development and persistence in a low rocky intertidal zone. Ecological monographs 48:67-94.
- Lubchenco, J. 1978. Plant species diversity in a marine intertidal community: Importance of herbivore food preference and algal competitive abilities. American Naturalist 112:23-39.
- Lutzen. 1979. Studies on the life history of Enteroxenos Bonnevie, a gastropod endoparasitic in aspidochirote holothurians. Ophelia, 18(1):1-51.
- Mackie, S.A. and E.H. Boyer. 1977. Intertidal zonation of macroscopic invertebrates on the Coquina reef at

Playa de Eshacion, Puerto Penasco, Sonora, Mexico.
Bios. Vol XLVIII(3):120-128.

Macurda, D.B., Jr. 1978. The Mississippian blastoid genus Crioblastus. Jour. Paleontology. 52:1288-1293.

_____. 1978. Abnormalities and asymmetries in blastoids - a key to larval bilateral symmetry? Geol. Soc. America, Abs. W. Prog. 10:449.

_____. 1979. The ontogeny and taxonomy of the Mississippian blastoid genus Schizoblastus. Univ. Michigan Mus. Paleon. Contrib. 25(3):45-87.

Macurda, D.B., Jr., Waters, J.A., and Horowitz, A.S. 1979. The stratigraphic distribution and paleoecology of the Carboniferous blastoid Pentremites (absl.). IX Inter. Carboniferous Congress. Abstracts of Papers:123.

Macurda, D.B., Jr., Meyer, D.L., and Roux, M. 1978. The crinoid stereom. Treatise on Invertebrate Paleontology, Part T. Echinodermata 2, vol. 1:217-228.

Macurda, D.B., Jr. 1979. (in press). Devonian blastoids of Bolivia Jour. Paleon.

_____. (in press). 1979. The taxonomy of the fissiculate blastoids. Univ. Michigan Mus. Paleon. Papers Paleon.

Meyer, D.L., Messing, C.G., and Macurda, D.B. Jr. 1978. Zoogeography of tropical western Atlantic Crinoidea. Bull. Mar. Sci. 28(3): 412-441.

Meyer, D.L. and Macurda, D.B., Jr. 1979. Alive and well after millions of years. Nat. History 88:58-69.

Macurda, D.L., Jr. 1978. Photographic techniques for the study of modern crinoids. Jour. Biol. Photographic Assoc. 46(1):36 2-5.

_____. 1978. These reef animals bloom at night. Smithsonian 9(2):86-89.

_____. 1979. Crinoids of Belize. Smith. Contrib. Zoology. (in press).

Macurda, D.B., Jr., and Roux, M. 1979. The Skeletal morphology of the isocrinoid crinoids Anacrinus wyville-thompsoni and Diplocrinus maclearanus: Univ. Michigan. Mus. Paleon. Contrib. (in press).

Maczynska. Echinoids from the Miocene deposits of the Roztocze Region, south-eastern Poland. (in press).

- _____. (in press). Micraster Micraster maleckii sp.n. from the Santonian of the environs of Cracow, new echinoid ex gr. Micraster Micraster rogalae Nowak. Common with V.A. Hynda. Travaux de Musee de la Terre, No. 32.
- McIntosh, G.C. and Macurda, D.B., Jr. Devonian echinoderm Biostratigraphy. (in press).
- Meyer, D.L. and Macurda, D.B., Jr. 1979. Ecology and distribution of the shallow water crinoids (Echinodermata) of the Palau Islands. Micronesia (in press).
- Marcus, Nancy. Developmental aberrations associated with twinning in laboratory reared sea urchins. Devel. Biol., (in press).
- _____. 1977. Genetic variation within and between geographically separated populations of the sea urchin, Arbacia punctulata Biol. Bull. 153:560-576.
- Marsh, L.M. 1976. Western Australian Asteroidea since H.L. Clark. Thalassia Jugoslavica 12(1):213-225.
- Marsh, L.M. and Rowe, F.W.E. (in press). A revision of the asterinid genus Nepanthia Gray, 1840 (Echinodermata: Asteroidea), with the description of three new species.
- Marsh, L.M. 1977. Coral Reef Asteroids of Palau, Caroline Islands. Micronesica 13(2):251-281.
- _____. 1976. Western Australian Asteroidea since H.L. Clark Thalassia Jugoslavica 12(1):213-225.
- Marshall, J.I. (in press). A revision of the crinoidea in the collection of the Museum d'Histoire Naturelle in Geneva. Revue Suisse de Zool.
- _____. Type-specimens of Crinoidea in the collections of the museum National d'Histoire Naturelle in Paris.
- _____. A report on a collection of crinoids from Madagascar in the Museum National d'Histoire Naturelle in Paris. submitted to Bull. Mus. Nat. Hist. Nat. Paris.
- Martin. Nearshore Marine Ecology at Hutchinson Island, Florida:1971-1974. Echinoderms. Florida Marine Research Publications. (in preparation).
- Mayer. Nearshore Fish and Macroinvertebrate communities of Atta Island, Alaska in, University of Washington College of Fisheries, Fisheries Research Institute #FRI-UW-7807 June 1978.

- Mayou. Tertiary Asteroids from Florida (abst.): Florida Scientist, Vol. 42.
- McConnaughey. Introduction to Marine Biology 3rd edition. C.V. Mosby Co. St. Louis Mo.
- McIntosh, G.C. 1978. Pseudoplanktonic crinoid colonies attached to Upper Devonian (Frasnian) logs. Abstr. Ann. Meetings, Geol. Soc. Amer., 10, #7, p. 453.
- _____. Abnormal specimens of the Middle Devonian crinoid Bactrocrinites and their effect on the taxonomy of the genus. Jour. Paleontology, 53, #1, 18-28.
- McIntosh, G.C. and D.B. Macurda. (in press). Devonian echinoderm biostratigraphy in The Devonian System (P.A. Symposium).
- McKemie. (in print): Agmocrinus tribrachiatus. McKemie and Sprinkle. (title uncertain).
- McKnight. Acanthaster at Kermadec Isls. and also at Elizabeth Reef.
- _____. Phrynocrinus from N.Z. waters. N.Z. Jl. Mar. Freshwater Res. (in press).
- _____. Gallothea Bathycrinids from Indian and Pacific Oceans. (in prep).
- Menge, B.A. and Lubchenco, J. 1978. Community development and persistence in a low rocky intertidal zone. Ecological Monographs 48:67-94.
- Menge, B.A. (submitted to Oecologia). Coexistence between the seastars Asteras vulgaris and A. forbesi in a heterogeneous environment: a non-equilibrium explanation.
- Messing. A revision of the comatulid genus Comactinia A.H. Clark (Crinoidea: Echinodermata). Bull. Mar. Sci. 28(1):49-80.
- _____. Pentametrocrinus atlanticus (Perrier)(Crinoidea: Echinodermata): a review. J.Nat. Hist., 12:699-708.
- Meyer. 1978. The crinoid stereom. Pp. T217-T228 in Moore, R.C., & C. Teichert (eds.), Treatise on Invertebrate Paleontology, Part T, Echinodermata 2, Vol. 1. Geol. Soc. America, Univ. Kansas. With D.B. Macurda, Jr., and M. Roux.
- Meyer. 1979. Length and spacing of the tube feet in crinoids (Echinodermata) and their role in suspension feeding. Marine Biology, (in press).
- _____. 1978. Paleoecology of an Upper Ordovician edrio-

asteroid bed. Geol. Soc. Am., Abs. with Programs
10:278. With G.P. Wahlman & R.J. Elias.

Mileikovskiy, S.A. 1978. On the abundance of pelagic larvae
of bottom invertebrates in the plankton of temperate
zone coastal waters. pp. 155-157.

———. On the influence of thermal pollution of marine
coastal and estuarine waters on the reproduction of
bottom invertebrates inhabiting these waters. pp. 159-
161. Both in Regularities of distribution and ecology
of coastal marine biocenosis. USSR-USA Sympos. on the
programs in Biol. Productivity and biochemistry of the
world ocean, Leningrad, Nov. 30 - Dec. 4, 1976, Leningrad,
Nauka Press, 1978 (Russian and English texts).

———. On the volume and intensity of autogenic pollutants
of the World Ocean at the present time (review of
literature). Oceanologia, 1978, vol. 18 No., 6
pp. 1092-1100.

Miller, J.E. and D.L. Pawson. 1979. A new subspecies of
Holothuria lentiginosa Marenzeller from the Western
Atlantic Ocean (Echinodermata: Holothuroidea). Proc.
Biol. Soc. Wash. 91(4):912-922.

Pawson, D.L. and J.E. Miller. In press. Secondary sex
characters in Coelopleurus floridanus A. Agassiz, 1872
(Echinodermata: Echinoidea).

Mironov, A. 1978. The most deep-sea species of sea urchins
(Echinoidea, Pourtalesiidae). Zoologicheskii Zhurnal,
57(5):721-726.

———. 1978. Meridosternin echinoids (Echinoidea: Meridosternina) collected during the 16th cruise of the R/V
"Dm. Mendeleev". Trans. Shirshov Inst. of Oceanology
Acad. Sci. USSR, 113: 208-226.

———. (in press). Deep sea echinoids of the genus Plesiodyadema (Echinoidea, Aspidodiadematidae). Trans. Shirshov
Inst. of Oceanology Acad. Sci. USSR.

Mitrovic. 1977. Cretaceous Echinoids of Stara Planina
Mts. Ann. Geol. de la Penins. Balkanique, Tome XLI,
Belgrade.

———. (in press). Recherches taphonomiques du gisement
contenant la faune des échinides l'éocène d'Istrie.
The III Echinoderm conference, Sydney 1978.

Morgan, Scott R. and Durham, J. Wyatt. 1978. New sand
dollars (Echinoidea) of the genera Merriamaster and

- Dendroaster from Purisima Formation, California. Proc. Cal. Acad. Sci. 4th Ser., v. 41, n. 11, pp. 297-305.
- Morishita. 1976. Astriclypeus Echinodiscus in Japan, Bull., Mizunami Fossil Museum, 3.
- Muscat, A.M. and J. Kastendiek, In press. A catalogue of the echinoderm type specimens at the Allan Hancock Foundation.
- Nauen. 1979. Population dynamics and ecology of the sea star, Asterias rubens L. in Kiel Bay. Report no. 40 Joint Research Project, 216 pp.
- _____. Skeletal growth in the echinoderm Asterias rubeus L. (Asteroidea, J. exp. mar. Biol. Ecol. 1979. (Nauen, C. & L. Bohm)(in press).
- Nestler, H. 1978. Echiniden aus dem Unter-Maastricht der Insel Rugen. VI. Ein neuer Vertreter der Temnopleuridae. Z. Geol. Wiss., Berlin 6, s. 619-625.
- _____. (in press). Echiniden aus dem Unter-Maastricht der Insel Rugen. VII. Die Pedizellarien von Stereocidaridaris pistillum (Qu., 1852).
- _____. 1978. Pedicellarien aus der Oberkreide - Möglichkeiten eines Vergleichs rezenter und fossiler Arten der Gattung Stereocidaridaris Pomel, 1883. Biol. Rdsch. Jena 16, s. 107-110.
- Nichols, D. 1978. Can we save the sea-urchin? Diver, 23 (10):490-491.
- _____. 1978. The Echinus survey. Underw. Cons. Progr. Newsletter, September 1978, 6-7.
- _____. 1978. The Echinus survey - the next phase Underw. Assoc. Newsletter, 13(1):11-12.
- _____. 1979. The Echinus project - a request for vigilance Underw. Conserv. Soc. Newsletter, June, 1979, 6-7.
- _____. 1979. A nationwide survey of the British sea-urchin Echinus esculentus L. In: Progr. Underw. Sci., (ed: J.C. Gamble & J.D. George), 4 (N.S.): 161-187. Plymouth: Pentech Press.
- _____. 1979. Aboral spine loss in the European sea-urchin Echinus esculentus (Echinodermata: Echinoidea). UCY/UCP Report, (ed: R. Earll), in press.
- _____. 1979. A biometrical study of populations of the

European sea-urchin Echinus esculentus (Echinodermata: Echinoidea) from four areas of the British Isles.
Rec. Austral. Mus. in press.

- Lewis, G.A. and Nichols, D. 1979. Colonisation of an artificial reef by the sea-urchin, Echinus esculentus. Progr. Underw. Sci., (ed: J.C. Gamble & J.D. George), 4 (N.S.): 189-195. Plymouth: Pentech Press.
- Nojima. (in press). Ecological studies of a sea star, Astropecten latespinosus MEISSNER I. Survivourship curve Publ. Amakusa Mar. Biol. Lab., 5(1):
- O'Brien, F.X. 1976. Some adaptations of the sea star, Leptasterias littoralis (Stimpson) to life in the intertidal zone. (it finally came out last year!!)
- Ohta. (in press). Photographic census of the large-sized epibenthos on the Pacific coast of central Japan. Proceedings of the 4th Symposium on the co-operative study of the Kuroshio and adjacent regions (CSK), held in Tokyo, in Feb. 1979.
- O'Connor, C.P. 1978. Environmental influences on histological changes in the reproductive cycle of four New South Wales sea urchins, Aquaculture 15(1):1-17.
- Okazaki. A study on ultrathin section of sea urchin larval spicule. Proceedings of the 3rd International Symposium on the Mechanism of the calcification of Invertebrates and Plants. (in press).
- _____. Sea urchin larval spicule observed with the scanning electron microscope (ibid).
- Oldfield. (in press). The Swain Reefs Expedition: Ophuroidea. Records of the Australian Museum .
- Oudejans, R. and I. vander Sluis. 1979. Changes in the biochemical composition of the ovaries of the sea-star Asterias rubens during its annual reproductive cycle. Mar. Biol. 50:225-261.
- Oudejans, R. and I. van der Sluis and A.J. Van der Plas. 1979. Changes in the biochemical composition of the pyloric caeca of female seastar Asterias rubens during its annual reproductive cycle. Mar. Biol. (in press).
- Oudejans, R. and I. Van der Sluis. 1979. Storage and depletion of lipid components in the pyloric caeca and ovaries of the seastar Asterias rubens during its annual reproductive cycle. Mar. Biol. (in press.).

II. Innervation of the tube foot retractor muscles.

_____. Evidence for the probable neural control of liliary activity in echinoderms. (in press).

Regis, M.B. and Arfi, R. 1978. Etude comparee de la croissance de trois populations de Paracentrotus lividus (Lamarck)(Echinoidea). C.R. Acad. Sc. Paris, serie D, 286, 1211-1214.

Regis, M.B., 1979. Croissance negative de l'Oursin Paracentrotus lividus (Lamarck)(Echinoidea). C.R. Acad. Sc. Paris, serie D, 288, 355-358.

_____. 1979. Analyse des fluctuations des indices physiologiques chez deux Echinoides (Paracentrotus lividus (Lmk) et Arbacia lixula L.) du Golfe de Marseille. Tethys (sous presse)(Accepte le 15.3.79)

_____. 1979. Etude des possibilites d'elevage des Oursins reguliers en fonction de la valeur de certains indices physiologiques. Oceanol. Acta (sous presse - Accepte le 6.4.79).

_____. 1979. Particularites microstructurales du squelette de Paracentrotus lividus et Arbacia lixula. Incidences sur l'ecologie et l'ethologie de ces echinoides. Mar. Biol. (sous presse. Accepte le 20.4.79).

_____. 1979. Etude de la croissance des plaques du test de l'echinoide Paracentrotus lividus (Lamarck) par le chlorhydrate de tetracycline. C.R. Acad. Sci. Paris. (sous presse. Accepte le 23.4.79), serie D, 271.

_____. 1978. Croissance de deux Echinoides du Golfe de Marseille (Paracentrotus lividus (Lmk) et Arbacia lixula L.). Aspects ecologiques de la microstructure du squelette et de l'evolution des indices physiologiques. These Doctorat d'Etat. Universiti d'Aix-Marseille
III. Faculte des Sciences et Techniques de St. Jerome.
1978. France.

_____. Incidences de certaines particularites microstructurales du squelette (sutures et radioles) sur l'ecologie et l'ethologie de Paracentrotus lividus (Lmk) et Arbacia lixula L. (Echinoidea). (sous presse).

_____. Etude des possibilites d'elevage des Oursins reguliers en fonction de la valeur de certains indices physiologiques. (sous presse).

_____. Etude de la croissance des plaques du test de l'

echinoide Paracentrotus lividus (Lamarck) par le chlorhydrate de tetracycline. (in presse).

Rho. (in press). On the Classification and the distribution of the Echinoderms 1. Ophiuroidea.

Robison, R. and Sprinkle. 1978. Ctenocystoids: Treatise on Invertebrate Paleontology, Part T, v.3, p. 998-1002.

Roman, J. and M. Philippe, 1978. L'Echinolampas (Echinoidea, Cassiduloida) le plus proche de la ~~metamorphose~~, dans le Miocene inferieur du Vaucluse (Sud-est de la France). Annales de Paleontologie, Invertebres 64 (2): 79-90.

Roman, J. and Freneix, S. In press. Gastrochaenidae endobioites dans des Echinides cenozoiques (Clypeaster et autres). Nouvelle classification de ces Bivalves. Bull. Mus. nation. Hist. natur. Paris.

Rose. 1978. Oligocene echinoid faunas of Darnah, Libya, and their palaeoenvironmental significance. Abstracts 2nd Symp. Geology of Libya, Tripoli, p.51.

Roux, M. 1976. Aspect de la variabilite et de la croissance au sein d'une population de la Pentacrine actuelle: Annacrinus wyvillethomsoni Jeffreys (Crinoidea). Thalassia Yugoslavica, 12(1):307-320.

_____. 1978. Les crinoides pedoncules (Echinodermes) du genre Conocrinus provenant de l'Eocene des environs de Biarritz. C.R. Acad. Sci. Paris, D, 286:255-268.

_____. 1978. Ontogenese, variabilite et evolution morpho-fonctionnelle du pedoncule et du calice chez les Millericrinida (Echinodermes, Crinoides). Geobios, Lyon, 11(2):213-241.

_____. 1978. Importance de la variabilite de la forme du calice chez les Bathycrinidae (Echinodermes, crinoides): l'exemple de l'espece eocene Conocrinus doncieuxi nov. sp. C.R. Acad. Sci. Paris, D, 287:797-800.

_____. a paraitre. Un exemple de relation etroite entre la geodynamique des oceans et l'evolution des faunes benthiques bathyales et abyssales: l'histoire des crinoides pedoncules du Mesozoique a l'Actuel. Bull. Soc. geol. France, 21. 1979.

_____. et Plaziat, J.C., 1978. Inventaire des crinoides et interpretation paleobathymetrique de gisements du paleogene pyreneen franco-espagnol. Bull. Soc. geol. France, 20(3):299-308.

- _____. et Macurda, D.B. a paraitre. The skeletal morphology of the isocrinid crinoids Annacrinus wyvillthomsoni and Diplocrinus maclearanus. Contrib. Mus. Paleontol. Univ. Michigan.
- Rowe. (in presse). A new genus and species in the family Opludiasteria (Echinodermata: Asteroidea) from the vicinity of Lord Howe Island Tasman Sea. Aust. Zool.
- _____. (with L.M. Marsh)(in press). A revision of the asterinid genus Nepanthia Gray, 1840 (Echinodermata: Asteroidea) with the description of 3 new species. Rec. Aust. Mus.
- Rozhnov. The sea lilies of the super family Pisocrinacea - Abstracts of dissertation. Paleontol. Inst. Ac. Sci. USSR. 1978. Moscow, p. 1-27.
- _____. (in press). Right-left forms in crinoids (with Yu. A. Arendt, Tbilisi)
- Sastry. (in press). On some crustacean associates of Echinodermata from the Bay of Bengal. Rec. Zool. Surv. India.
- Sato. 1978. The microtubule - its structure and function. The Cell, 10, 690-706.
- _____. DNA and chromosome arrangement in mature sperm head. 1979. In: "Daisha" suppl., "The Sex". In press.
- _____. 1979. Assembly and disassembly of the mitotic spindle. in: Yamada Conference on Cell Motility; "Molecules and Organization", Univ. Tokyo Press, in press.
- Scheibling, R.E. In press. The abundance, patial distribution, and size structure of populations of Oreaster reticulatus (L.)(Echinodermata: Asteroidea) in seagrass beds. Marine Biology.
- _____. In press. The abundance, spatial distribution, and size structure of populations of Oreaster reticulatus (L.)(Echinodermata: Asteroidea) on sand bottoms Marine Biology.
- Scheltema, R.S. 1977. Dispersal of marine invertebrate organisms Paleobiogeographic and Biostratigraphic implications. pp. 73-108. In: Concepts and Methods of Biostratigraphy EG Kauffman and J.E. Hazel (editors) Dowden, Hutchinson and Ross. Straidsburg, Penna.
- Serafy. In press. Age, growth, recruitment and sediment correlations in the northern sand dollar, Echinarachnius

parma (Echinodermata: Echinoidea), on the Middle Atlantic Shelf.

_____. In press. Memoirs of the Hourglass Cruises: Echinoids (Echinodermata: Echinoidea).

Shick, J. and Brown, W. 1978. Bimodal gas exchange and the regulation of O_2 uptake in holothurians. Amer. Zool. 18: 604. (Manuscript of same title submitted to THE BIOLOGICAL BULLETIN).

Schuetz, A. and Clance, J. 1978. Cellular, hormonal and conic interactions related to induced and spontaneous oocyte maturation. Ann. Biol. Bioch. Biophys. 18 (2B) 493-502.

Schuetz. 1978. The cell surface and its relationship to control of meiosis reinitiation Biol. Cellulaire 32: 89-95.

Schuetz, and R. Glad. 1978. Temporal aspects of starfish oocyte maturation and 1. methyladenine metabolism. in vitro. J. Exp. Zool. 206(2) 199-206.

Shirai. In press. Polar body formation in relation to 1 - methyladenine action.

Shirley, T.C. 1977. The importance of echinoderms as prey of fishes of a sublittoral rock reef. American Zoologist 17(4):870. (Abstract).

_____. In press. The importance of echinoderms as prey of fishes of a sublittoral rock reef. Texas A&I University Studies, Kingsville, TX.

Shoenmakers, H. and Dieleman, S. Radio immuno assays to determine the presence of progesterone and oestrone in the starfish Asterias rubens. Gen. Comp. Endocrinol., in press (1979).

Schoenmakers, H. Steroids and reproduction of the female Asterias rubens L. Ph.D. Thesis, 273 pp., State University of Utrecht, The Netherlands (1979).

_____. In vitro biosynthesis of steroids from cholesterol by the ovaries and pyloric caeca of the starfish Asterias rubens. Comp. Biochem. Physiol., 63B, 179-184 (1979).

Schoenmakers, H., and Voogt, P. Biometrical aspects of vitellogenesis in starfish. Gen. comp. Endocrinol. in press (1979).

_____. Stimulation of vitellogenesis in starfish. Gen. comp. Endocrinol., in press (1979).

Schoenmakers, H., Dieleman, S., Van Bohemen, Ch., Voogt, P.
Biosynthesis of steroids and their possible functions
for reproduction in Asterias rubens. (Echinodermata).
In: Comparative Endocrinology (P.J. Gaillard and H.H.
Boer, eds), pp. 33-36. Elsevier/North-Holland Bio-
medical Press, Amsterdam (1978).

Sibuet, M. Ophidiaster reyssi n.sp. nouvelle espece d'
Asteride bathyale de l'Ocean atlantique. Bull. Mus.
nat. Hist. nat Paris. 3 474. Zool. 343. 1978

_____. Synallactes longitattillata n. sp. nouvelle espece
d'Holothurie d'un genre rarement represente dans l'
Ocean Atlantique. Bull. Mus. Natu. Hist. nat. Paris
3 ser. 514/353.

Sibuet, M. et Lautier, L. Ecology of the benthic communities
of the deep northeast Atlantic. Ambis (in press).

Sibuet, M. Distribution and diversity of Asteroids in
Atlantic abyssal basins. Sarsia (in press).

Sides, E.M., 1975. Niche Separation in three species of
Ophiocana (Ophiurodae Echinodermata): Jamaica.

_____. Current work. Behavior, Competition and Predation
of shallow water Ophiuroids: Jamaica. for Ph.D.

Simpson. The reproduction of some echinoderms from Macquarie
Island. From the third International Echinoderm
Conference.

Sloan, N.A. Coping with stardom: The lives of starfish.
Waters, 2:1-31 (1977).

_____. The arm curling and terminal tube-foot responses
of the asteroid Crossaster papposus (L.) Journal of
Natural History (in press).

_____. A pycnogonid - Ophiuroid association. Marine
Biology (in press).

_____. Starfish encounters: An experimental study of
its advantages. Experientia (in press).

_____. Microhabitat and resource utilization in cryptic
rocky intertidal echinoderms at Aldabra Atoll, Seychelles
Marine Biology (Submitted).

_____. Aspects of the feeding biology of asteroids.
Oceanography and Marine Biology: An Annual Review
(to be submitted by July, 1979).

- Sloan, N. A., A.M. Clark and J.D. Taylor. The echinoderms of Aldabra and their habitats. Bulletin of the British Museum of Natural History (Zoology) (in press).
- Sloan, N.A. and A. C. Campbell. Perception of Food. An invited chapter in the forthcoming volume 'Echinoderm Nutrition', edited by M. Jangoux and J.M. Lawrence (in press).
- Smith, A. A functional classification of the coronal pores of regular echinoids. Palaeontol. 21(4), 759-789.
- _____. The structure, function and evolution of tube feet and ambulacral pores in irregular echinoids. Palaeontol. (in press).
- Splechtna. . Structural and functional analysis of ophiocéphalous pedicellariae from Sphaerechinus granularis Lam., Echinus acutus Lam. and Paracentrotus lividus Lam. (Echinodermata, Echinoidea) Zoomorphologie 86, 1976.
- Sprinkle, J. and Moore, R.C. 1978. Hyborcrinida, p. T564-T574. In: Moore, R.C. and Teichert, C., Treatise on Invertebrate Paleontology, Part T, Echinodermata 2 (Vols, 1-3). Geol. Soc. Amer. and Univ. Kansas Press, 1027 pp.
- _____ and _____. 1978. Echmatocrinea, p. T405-T407. Ibid.
- _____ and Robison, R.A. 1978. Ctenocystoids, p. T998-T1002. Ibid.
- Stephenson. (in press). The trimerous stage in echinoderm evolution: An unnecessary hypothesis. Jour. Paleont.
- Strathmann. 1978. Length of pelagic period in echinoderms with feeding larvae from the Northeast Pacific. J. Exp. Mar. Biol. Ecol. 34:23-27.
- _____. 1979. Echinoid larvae from the Northeast Pacific (with a key and comment on an unusual type of planktotrophic development). Canadian J. Zool. 57 (in press).
- Strenger, A, and H. Splechtna: Zum Auftreten und zur Ernährung von Echinus melo Lam. (On the appearance and Feeding of Echinus melo Lam.) Zool. Anz., Jena 200 (1978) 374-378. In German with English summary.
- Broadhead, T.W. and H.L. Strimple, in press. Hyrtanecrinus a new Carboniferous camerate crinoid genus from eastern North America.

- Frest, T.J. and H. L. Strimple, 1977. Praeholidocidaris, a new echinoid from eastern North America.
- ____ and _____. 1977. Hirneacrinidae (new), simple Silurian camerate crinoids from the North American continental interior. Jour. Paleont. v. 51: 1181-1200.
- ____ and _____. 1978. Manicrinus (nov.) a cladid evolutionary homeomorph of the bottom dwelling Hybo-
crinus, Brownsport (Silurian: Ludlow) of Tennessee. Southeastern Geology. v. 19 (3): 157-175.
- ____ and _____. 1978. A revision of Lecanocrinus (Crinoidea: Flexibilia) and new Devonian lecanocrinid. Neu. Jahrb. Palaont. Mh., Heft 9: 521-533.
- ____ and _____. 1978. The flexible crinoid genus Anisocrinus (Ordovician-Silurian) in North America. Jour. Paleont. 52 (3): 683-696.
- ____ and _____. in press. New Comarocystitida (Echinodermata: Paracrinoidea) from the Ordovician of Oklahoma and Silurian of Iowa.
- Frest, T.J., H. L. Strimple and Cliff Coney, in press. Paracrinoids (Platycystitidae) from the Benbolt Formation (Blackriverian) of Virginia.
- Frest, T.J., H.L. Strimple and M.R. McGinnis, in press. New Cincinnatiacrinacea and Homocrinacea (Echinodermata: Crinoidea) from Ordovician rocks of Virginia and Oklahoma.
- Katz, S.G. and H.L. Strimple, 1978. Blastoids from Wapanucka Formation, Lower Pennsylvanian. Okla. Geol. Surv., Okla. Geol. Notes 38 (3): 99-101.
- Kelly, S.M, T.J. Frest and H. L. Strimple, 1978. Additional information on Simplococrinus persculptus. Jour. Paleont. 52 (6): 1227-1232.
- Kolata, D.B., H.L. Strimple and C. O. Levorson, 1977. Revision of the solutan carpoid family lowacystidae. Palaeontology 20: 529-557.
- ____, ____ and _____, 1977. A new species of Bothriocidaris (Echinoidea) from the Cincinnati Maquoketa Group of Iowa. Proc. Iowa Acad. Sci. 84: 146-149.
- Lewis, R.D. and H.L. Strimple, in press. Carboniferous crinoids with spinose, mushroom-shaped anal sacs. IX ICC abstract.

Pabian, R.K. and H.L. Strimple, 1977. Observations on Cibolocrinus Weller, a late Paleozoic flexible crinoid from the North American midcontinent. North Central GSA Abstracts 9:638-639.

____ and _____, 1978. Crinoids from the Winterset Limestone (Late Pennsylvanian-Missourian), of Iowa, Nebraska and Kansas. Iowa Acad. Sci. Abstracts: 48, 49.

____ and _____, 1978. Delocrinus vastus Lane & Webster from the Hughes Creek Shale (Lower Permian), Richardson County, Nebraska. Jour. Paleont. 52 (b): 1393-1394.

____ and _____, in press. Classification, paleoecology, and biostratigraphy of crinoids of the Stull Shale (Virgilian) of Nebraska, Kansas and Iowa.

____ and _____, in press. Notes on Cibolocrinus conicus Strimple from Oklahoma, Kansas and Nebraska.

____ and _____, in press. Some Late Pennsylvanian (Virgilian) crinoids from southeastern Nebraska and southwestern Iowa.

____ and _____, in press. Some crinoids from the Winterset and Westerville Limestones (Late Pennsylvanian, Missourian) of southwestern Iowa and southeastern Nebraska. Iowa Acad. Sci. Abstract.

Strimple, H. L., 1977. Chesterian (Upper Mississippian) and Morrowan (Lower Pennsylvanian) crinoids of northeastern Oklahoma and northwestern Arkansas. Okla. Geol. Surv. Guidebook 18: 171-176.

____. 1977. Possible commensal relationship between Edriocrinus and the bulbous float of Scyphocrinites (Crinoidea) Echinodermata. Okla. Geol. Notes 37: 171-173.

____. 1978. Occurrence of Cranocrinus Wanner in North America. Proc. Iowa Acad. Sci. 85: 21-24.

____. 1978. Ambulacral covering plates covering the oral field in Stellarocrinus (Crinoidea). Jour. Paleont. 52: 209-211.

____. 1979. Upper Carboniferous occurrence of the larviform crinoid genus Lampadosocrinus. Geol. Mag.: 45-48.

____, 1978. In Part T (Echinodermata) of Treatise on Invertebrate Paleontology.

_____, in press. Pennsylvanian crinoids: State of the art after forty years. Abstract IX ICC.

Strimple, H.L. and C. Coney, 1978. Paratarocrinus, a new camerate genus from the Upper Mississippian of Virginia. Jour. Paleont. 52: 484-487.

Strimple, H.L., T.J. Frest and J.F. Miller, 1978. The genus Anartiocrinus (Crinoidea: Inadunata). Southeastern Geology, 91:29-37.

Strimple, H.L. and J.F. Miller, 1978. A new species of Arroyocrinus (Inadunata) from the Park City Formation (Upper Permian) of Utah. Brigham Young Univ. Geol. Studies 24: 9, 10.

Sugiyama. 1978. Species-specific adhesion of spermatozoa to the surface of fixed eggs in sea urchins. Develop., Growth and Differ., 20: 337-347.

Sutton, J.E. 1976. Partial revision of the genus Amphiodia Verrill (Ophiuroidea: Amphiuridae) from the west coast of North America. Thalassia Jugoslavica 12 (1): 347-354. (Publ. 1978).

Taki. 1978. Formation of growth lines in test plates of sea urchin, Strongylocentrotus intermedius, reared with different algae. Bull. Jap. Soc. Scie. Fish., 44(9), 955-960.

Termier. (with V.J. Gupta). Lower Palaeozoic Echinodermata from Chandragiri Pass, near Kathmandu, Nepal.

Termier. Modalites de l'evolution des Echinodermes au Paleozoique inferieur. Bruxelles, septembre 1979: Colloque sur les Echinodermes. (in prep).

Tommasi. Equinodermes da regioao de Illia Grande(Rio de Janeiro).

_____. Equinodermes do sul do Brasil.

Tortonese. in press). Littoral Echinoderms from South Somaliland. Monit. Zool. Ital.

_____. in press. Biological Survey of Sharm Obhor (Saudi Arabia). Echinodermata - Bull. Univ. Jeddah.

Town. 1978. An Annotated Key to the Echinoderms of Kaikowa Peninsula. Mauri Ora 6: 47-55.

_____. 1979. Distribution and dispersal of the genus Astrostole Fisher, 1928 (Echinodermata: Asteroidea).

Journal of the Royal Society of New Zealand. (in press).

Turki. 1975. Echinides du Cretace de Tunisie centrale.
Etude systematique Paleobiometrique et Paleoecologique.
In: Notes et contributions du CERPAB. No. 10., 117p.,
73 fig., 3 pl.

_____.in press. Les Especies d'Echinides Spatangoides
Hemiaster fourneli Deshayes et Pluiaster verneuili
Desor dans le Cretace superieur de Tunisie. In: Bull.
Soc. Sci. Nat. Tunisie. nouv. serie, Tome 13.

Turner, R.L. and J.H. Dearbor. 1979. Organic and inorganic
composition of post-metamorphic growth stages of
Ophionotus hexactis (E.A. Smith) (Echinodermata:
Ophiuroidea) during intraovarian incubation. J. Exp.
Mar. Biol. Ecol. 36: 41-51.

Turner, R.L. and J.M. Lawrence. in press. Volume and com-
position of echinoderm eggs: implications for the use
of egg size in life-history models. In S.E. Stancyk,
ed., Reproductive ecology of marine invertebrates.
Belle W. Baruch Lib. Mar. Sci. 9.

Tyler, P.A. and Gage, J.D. 1978. Reproductive ecology of
deep-sea ophiuroids from the Rockall Trough. In
'E. Naylor' Ed. Cycles in the Marine Environment.
(in press).

Ubaghs. Trois Mitrata nouveaux (Echinodermata: Stylophora)
de l'ordovicien de Tchecoslovopuie (Palont. Zeitschr.
in press).

Vodas. (with H.B. Larson (senior author) and M. Keser.
Feeding ecology of S. drobachiensis I and II Submitted
to Mar. Biol. Dec. 1978.

Voogt, P. A. and Huiskemp, R. Sex-dependence and seasonal
variation of saponius in the gonads of the starfish
Asterias rubens: Their relation to reproduction.
Comp. Biochem. Physiol. (in press).

Wahlman, G.P. Meyer, D.L., and R.J. Elias. 1978.
Paleoecology of an Upper Ordovician edrioasteroid bed
(Abstract): Geol. Soc. America, Abs. with Programs,
North-central Mtg, v. 10, no. 6, p. 278.

Walenkamp. 1976. Asteroids of the coastal waters of
Surinam Zool. Verhand., Leiden, 147: 1-91. To be
published this year: Asteroids of the Guyana waters.

Walker, C.W., 1976. Studies on the Reproductive Systems of

Sea-stars. III. Preliminary Report on Morphology, Histology and Ultrastructure of the Gonad and Gonoduct of the Hore-star, Hippasteria phrygiana (Asteroidea, Goniasteridae). Report of the Second Echinoderm Conference. Thal. Yugo, 12:361-369.

Walker, C.W., 1978. Non-metachronal Current Generation by the Flagellated-collar Cells of Echinoderms. (Abstract)., Amer. Zool, 18:645.

_____. in press. Comparative Ultrastructure of Gonads in the Sea-stars Ctenodiscus crispatus and Hippasteria phrygiana, with emphasis on flagellated-collar cells and nutrient transport.

_____. (in manuscript). Gametogenesis and nutrition of gametes in the Echinoderms. Chapt. 16, in Nutrition of the Echinoderms, eds. J. Lawrence and M. Janroux.

_____. (in manuscript). Sequential change in the structural microenvironment influencing germinal cells during annual spermatogenesis.

Weber, W. and Gras, H. Light-induced alterations in cell shape and Pigment displacement in Chromatophores of the sea Urchin Centrostephanus longispinus. Cell Tiss. Res. 182, 165-176 (1977).

_____ and _____. 1978. Aspects of light-sensitivity and ultrastructure of chromatophores of the sea urchin Centrostephanus longispinus (Abstract) Verh. Dtsch. Zool. GES.

Welch. 1978. Flume study of simulated feeding and hydrodynamics of a Paleozoic stalked crinoid. Paleobiology, v. 4: 89-95.

_____. 1978. Pterotocrinus rugosus Lycu & Casseday from the Middle Chesterian of the Illinois Basin. J. Paleont. 52: 904-915.

_____. in press. The asteroid, Lepidasterella montanensis n.sp., from the Upper Mississippian Bear Gulch Limestone of Montana.

Wellington, G. Glynn, P. and Birkeland, C. 1979. Coral Reef growth in the Galapagos: Limitation by sea urchins, Science Vol. 203 pp. 47-49.

Wilkie. 1978. Functional morphology of the autotomy plane of the brittlestar Ophiocomina nigra (Abildgaard).

Zoomorphologie 91: 289-306.

- _____. 1979. The juxtaligamental cells of Ophiocomina nigra and their possible role in mechano-effector function of collagenous tissue. Cell Tissue Res. (In press).
- Witzke. in press. Biogeography of the Silurian-Lower Devonian echinoderms: Univ. Oregon symposium on biogeography (A.J. Borcote, ed.) (with Frest, and Strimple)
- Word. 1979. Southern California Coastal Water Research Project: 1.) The Infaunal Trophic Index, 2.) Control Survey of 60 m depth. 3.) Establishing biological criteria for determining normal, changed, and degraded conditions on the sea bottom.
- _____. 1978. A list of California ophiuroids and their literature synonyms for the Association of Systematics Collections.
- _____. 1977. Proceedings of 1st Fish Food Habits Workshop. A biological comparison of benthic grab samplers. The taxonomic standardization program.
- _____. in press. Proceedings of the 2nd Fish Food Habits Workshop. Application of the Infaunal Trophic Index to Fish Feeding Studies.
- Yanagisawa, T. and Fujimaki, H. 1978. Changes in activities of creative kinase, arginine kinase and their multienzyme forms during embryonic and larval development of sea urchins. Develop., growth and Differ. 20, 125-131.
- Yoshida, M. Extraocular photoreception. In "Handbook of Sensory Physiology Vol. VII/6A." Springer. 1979.
- Zammit-Maempel, G. 1977. An Outline of Maltese Geology. Malta. 44pp., 29 pls., 6 text figs. (Pl. 18, 19, 24, 25; Fig. 4 represent Maltese fossil echinoids.
- _____. 1979. The Indo-Pacific affinity of some Maltese Tertiary fossil echinoids. Centr. Med. Nat. 1(1):1-12. January, 1979 Malta.
- _____. 1979. Laganum depressum Agassiz (Echinoidea, Laganidae), A new record from the Maltese Tertiary. A. Soc. Tosc. Sci. Nat. Mus. (A).
- Zavodnik. Note on Ophioconis forbesi (Heller, 1882) (Echinodermata, Ophiuroidea) from the Adriatic Sea. Rapp. Comm. int. Mer. Medit., 24 (4) 179-180 (1977).
- _____. Adriatic echinoderms inhabiting benthic organisms.

Thalassia Jugosl., 12 (1) 375-380 (1976).

Zavodnik, D., Zavodnik, N. and Igić Lj. The benthos of Bakar Bay and pollution. (in Croatian) Pomorski zbornik, 16: 419-435. (1978).

Zeidler. 1978. Echinoderm type-specimens in the South Australian Museum. Rec. S. Aust. Mus., 17(25): 373-380.

Recent publications and papers in press

SUPPLEMENT A

Arnaud F., Arnaud P.M., Intes A., and Le Loeuff P. 1976. Transport d'invertébrés benthiques entre l'Afrique du Sud et Sainte Helene par les laminaires (Phaeophyceae). Bull. Mus. D'Hist. Nat. Ecol. Generale, 30:51-55.

Arnaud P.M. 1977. Adaptations within the Antarctic Marine Benthic ecosystem. In: George Llano, (ed) Proceedings of the Third ACAR Symposium on Antarctic Biology. pp. 135-157.

Bak, P., Nojima S. 1980. Immigration of a tropical sea urchin, Astropyga radiata (Leske) on a temperate eelgrass, Zostera marina L., patch: Its feeding habit and grazing effect on the patch. Amakusa Mar.Biol. Lab., 5(2): 155-169.

Baker N., 1980. Euryalinid Ophiuroides (Echinodermata) from Australia, New Zealand, and the southwest Pacific Ocean. New Zealand Jour. Zoology, 7(1):11-83.

Belyaev, G.M. and A.N. Mironov, 1976. Holothurians of the genus Myriotrochus from the southern part of the Atlantic Ocean. Akademiya Nauk SSSR, Trudy Instituta Okeanologia 113: 198-207. (In Russian).

Bernascosi I., y D'Agostino M.M. 1978. Echinodermos Antarticos, III Ofiuroideos. 3) Ofiuroideos. de Sandwich del Sur y Georgias del Sur. Inst. Nacion. Invest. Cien. Nat., 5(8): 204-219.

Bickell L.R., Chia F.S. 1979. Organogenesis and histogenesis in the planktotrophic veliger of Doridella

steinburgae (Opisthobranchia; Nudibranchia). Mar. Biol. 52:291-313.

- Binyon J. 1978. Some observations upon the chemical composition of the starfish Asterias rubens L., with particular reference to strontium uptake. J. Mar. Biol. Ass. U.K., 58:441-440.
- Blake B.B. and Zinsmeister W.J. 1979. Two early cenozoic sea stars (Class Asteroidea) from Seymour Island, Antarctic Peninsula. J. of Paleont., 53(5): 1145-1154.
- Brown, W.I. and Schick, J.M. 1979. Bimodal gas exchange and the regulation of oxygen uptake in Holothurians. Biol. Bull, 156: 272-288.
- Burke J.J. and Pabian R.K. 1978. Two crowns of Cibolocrinus patriciae (Crinoides, Flexibilia) from the lower permian of Bolivia. J. of Paleont., 52(5): 1065-1069.
- Cameron, R.A. and S.C. Schroeter, 1980. Sea urchin recruitment: effect of substrate selection on juvenile distribution. Mar. Ecol. Progress Ser. 2(3):243-247.
- Caso, M.E. 1978. Ciencia y tecnica de los Equinodermos en relacion con el hombre primera parte. Aspecto Cientifico. An. Centro Cienc. del Mar. y Limnol. Univ. Nal. Auto. Mexico, 5(1): 255-286.
- Caso, Maria E. 1979. Los Equinodermos de la bahia de Mazatlan, Sinaloa. An. Centro Cienc. del Mar. y Limnol. Univ. Nal. Auton. Mexico, 6(1): 197-369.
- Caycedo, I.E. 1978. Holothurioidea (Echinodermata) de aguas someras en la costa norte de Colombia. An. Inst. Inv. Mar.-Punta Betin, 10:149-198.
- Chauvel F. et Menn J. 1979. Sur quelques echinodermes (Cystoides et Crinoides) de l'ashgill d'aragon (Espagne). Geobios 12(4); 549-587.
- Cherbonnier, G. 1979. Description d'Actinopyga flammea nov. sp., et donnees nouvelles sur deux especes connues d'Holothurians Aspidochirofes (Echinodermes). Bull. Mus. natn. Hist. natl, 4(1):3-12.
- Challis, G.R. 1979. Miocene Echinoid biofacies of the Maltese Islands. Ann. Geol. Pays Hellen., Tome hors serie, fasc. 1:253-262.
- Deschuyteneer, M. et Jangoux M. 1978. Comportment alimentaire et structures digestives d'Ophioderma longicauda (Retzius) (Echinodermata, Ophiuroidea). Ann. Inst.

oceanogr., 54(2): 127-138.

- Devaney, D.M. 1978. A review of the genus Ophiomastix (Ophiuroidea: Ophiocomidae). Micronesica 14(2): 273-359.
- Diehl, W.G., McEdward L., Proffitt E., Rosenberg V. and Lawrence, J.M. 1978. The response of Luidia clathrata (Echinodermata: Asteroidea) to hypoxia. Comp. Biochem. Physiol. 62A: 669-671.
- Diehl, W.J. and Lawrence, J.M. 1979. Effect of nutrition on the excretion rate of soluble nitrogenous products of Luidia clathrata (Say) (Echinodermata: Asteroidea). Comp. Biochem. Physiol., 62A: 801-806.
- Downey, M.E., 1979. Hymenaster kieri, a new species of starfish of the family Pterasteridae (Echinodermata: Asteroidea). Proc. Biol. Soc. Washington, 92(4): 801-803.
- Downey M.E. 1979. Pythonaster pacificus n.sp., A new starfish of the family Myxasteridae (Echinodermata: Asteroidea). Proc. Biol. Soc. Washington, 92(1):70-74.
- Downey, M.E. and Wellinton, G.M. 1978. Rediscovery of the Giant seastar Luidia superba A.H. Clark in the Galapagos Islands. Bull. of Mar. Sci., 28(2):375-376.
- Durako, M.J., Goddard R.H., Hoffman, W. and Lawrence, J.M. 1979. Malate and lactate dehydrogenase activities in the pyloric caeca of Luidia clathrata. Comp. Biochem. Physiol., 62B:127-128.
- Durham, J.W. 1978. A lower Cambrian Eocrinoid. J. Paleont. 52(1):196-200.
- Durham, J.W. and Morgan, S.R. 1978. New sand dollars (Echinoidea) of the genera Merriamaster and Dendraster from Purisima Formation, California. Pro. Calif. Acad. Sci., fourth series, 41(11): 297-305.
- Durham, J.W. 1978. Polymorphism in the Pliocene sand dollar Merriamaster (Echinoidea).. J. of Paleont., 52(2): 275-286.
- Durham, J.W. 1978. The probable metazoan biota of the pre-cambrian as indicated by the subsequent record. Ann. Rev. Earth Planet. Sci. 6:21-42.
- Ebert, T.A. 1978. Growth and size of the tropical sea cucumber Holothuria (Halodeima) atra Jager at Enewetak Atoll, Marshall Islands. Pacific Sci., 32(2): 183-189.
- Eckelbarger, K.J. and Chia, F.S. 1978. Morphogenesis of Larval

- cuticle in the polychaete Phragmatopoma lapidosa.
Cell Tiss. Res., 186:187-201.
- Ghiold, J. 1979. Spine morphology and its significance in feeding and burrowing in the sand dollar, Mellita quinquiesperforata (Echinodermata: Echinoidea). Bull. Mar. Sci., 29(4): 481-490.
- Gupta, V.J. and Prokop, R.J. 1978. Kallimorphocrinus indicus sp. n. (Crinoidea) from the lower carboniferous of Himalaya, India. Riv. Ital. Paleont. 84(1): 57-62.
- Haugh, B.N. 1978. Biodynamic and phyletic paradigms for sensory organs in camerate crinoids. Lethaia, 11:145-173.
- Hickman, V.V. 1978. Notes on three species of Tasmanian Sea Cucumbers including one species that broods its young in the coelome (Holothuroidea: Phyllophoridae, Caudinidae). Pap. Pro. Roy. Soc. Tasmania, 112: 29-36.
- Intes, A. et Menou, J.L. 1979, Quelques Holothuries (Echinodermata) des environs de Noumea et leur repartition. Techn, 3.
- Jangoux, M. 1980. Le genre Leiaster Peters (Echinodermata, Asteroidea: Ophidiasterida). Rev. Zool. Africaine, 94(1):86-110.
- Karlson, R. 1978. Predation and space utilization patterns in a marine epifaunal community. Exper. Mar. Biol. Ecol. 31: 225-239.
- Lamberson, J.O. 1978. Notes on the morphology, ecology and distribution of Thelenota anax H.L. Clark (Holothuroidea: Stichopodidae). Micronesica 14(1): 115-122.
- Lessios, H.A. 1979. Use of Panamanian sea urchins to test the molecular clock. Nature, 280(5723): 599-601.
- Levin, V.S. 1979. The discovery and some ecological characteristics of Stichopus japonicus (Holothuroidea) in the intertidal zone. Akademiya Nauk SSSR, Biologia Morya 3:90-91.
- _____. 1979. Aspidochirote holothurians of the upper sublittoral zone of Indo-West Pacific: species composition and distribution. Ibid. 3:17-23.
- _____. 1979. A composition of feeding particles of aspidochirote holothurians from the upper sublittoral zone of Indo-west-Pacific. Ibid. 3:20-27.
- Lucas, J.S., Hart, R.J., Howden, M.E., and Salathe, R. 1979. Saponins in eggs and larvae of Acanthaster planci (L.)

(Asteroidea) as chemical defences against planktivorous fish. *Exper. Mar. Biol. Ecol.*, 40:155-165.

McNamara, K.J. and Philip, G.M. 1979. Australian Tertiary schizasterid Echinoids. *Alcheringa*, 4:47-65.

Marcus, N.H. 1980. Genetics of morphological variation in geographically distant populations of the sea urchin, Arbacia punctulata (L.). *Exper. Mar. Biol. Ecol.*, 43: 121-130.

Märkel, K. 1979. Structure and growth of the Cidaroid socket joint Lantern of Aristotle compared to the hinge-joint lanterns of non-cidaroid regular Echinoids. *Zoomorphologie*, 94:1-32.

Massin, C., Jangoux, M. et Sibuet, M. 1978. Description d'Ixoreis Psychopotae nov. gen., nov. sp., coccidie parasite du tube digestif de l'Holothurie abyssale Psychropotes longicauda Theel. *Protistologica* 14(3): 253-259.

Matsumura T., Hasegawa, M. and Shigei, M. 1979. Collagen biochemistry and phylogeny of Echinoderms. *Comp. Biochem. Physiol.* 62B:101-105.

Messing, C.G. 1978. Pentametrocrinus atlanticus (Perrier) (Crinoidea: Echinodermata): A review. *Nat. Hist.*, 12: 699-708.

Mosher, C. 1980. Distribution of Holothuria arenicola Semper in the Bahamas with observations on habitat, behavior, and feeding activity (Echinodermata: Holothuroidea). *Bull. Mar. Sci.* 30 (1): 1-12.

Nelson, B.V. and Vance R.R. 1979. Diel foraging patterns of the sea urchin Centrostephanus coronatus as a predator avoidance strategy. *Mar. Biol.*, 51: 251-258.

Okada, M. 1979. The central role of the genital duct in the development and regeneration of the genital organs on the sea urchin. *Develop., Growth Diff.*, 21(6): 567-576.

O'Neill, P.L. 1978. Hydrodynamic analysis of feeding in sand dollars. *Oecologia*, 34:157-174.

Pabian, R.K. and Strimple, H.L. 1978. Delocrinus vastus Lane and Webster from the Hughes Creek shale (lower Permian), Richardson County, Nebraska. *Paleont.*, 52(6): 1393-1394.

- Pabian, R.K. and Strimple, H.L. 1979. Notes on biometrics, paleoecology and biostratigraphy of Cibolocrinus conicus Strimple from Oklahoma, Kansas and Nebraska. *Paleont.* 53(2):421-437.
- Pabian, R.K. and Strimple, H.L. 1978. Crinoids from the winterset limestone (Late Pennsylvanian,--Missourian), of Iowa, Nebraska and Kansas. Abstracts of Contributed Papers, Iowa Acad. Sci., Nineteenth Edition, pp 48-49.
- Pabian, R.K. and Strimple, H.L. 1978. Suggested reevaluation of the South Bend Limestone (Late Pennsylvanian-Missourian) of southeastern Kansas based upon Crinoids. *Proc. Nebraska Acad. Sci. Eighty-eighth Annual Meeting*, April 14-15, 1978, pp 45.
- Pabian, R.K. and Strimple, H.L. 1978. Aberrant Pennsylvanian and Permian Crinoids. *Trans. Nebraska Acad. Sci.*, 5: 45-57.
- Pawson, D.L. and Phelan, T.F. 1979. Clypeaster kieri, a new species of Clypeasteroid (Echinodermata: Echinoidea) from off Bombay, India. *Proc. Biol. Soc. Washington*, 92(4): 796-800.
- Pawson, D.L. and Miller, J.E. 1979. Secondary sex characters in Coelopleurus floridanus A. Agassiz, 1872 (Echinodermata: Echinoidea). *Bull. Mar. Sci.*, 29(4): 581-586.
- Pawson, D.L. 1978. The Echinoderm fauna of Ascension Island, South Atlantic Ocean. *Smithson. Contrib. Mar. Sci.* No. 2:1-31.
- Philip, G.M. 1979. Carpoids - Echinoderms or Chordates? *Biol. Rev.*, 54: 439-471.
- Plas, V. and Prokop, R.J. 1979. ?Argodiscus rarus sp. n. (Edrioasteroidea) from the Sarka Formation (Llanvirn) of Bohemia. *Vestnik Ustredniho ustavu geologickeho*, 54(1): 41-44.
- Prokop, R.J. 1980. Cyclocystoidea Miller and Gurley, 1895 (Echinodermata) from the Bohemian Lower Devonian. *Vestnik Ustredniho ustavu geologickeho*, 55(1): 19-26.
- Rice, A.L., Aldred, R.G., Billett, D.S.M. and Thrurston, M.H. 1979. The combined use of an epibenthic sledge and a deep sea camera to give quantitative relevance to macro-benthos samples. *Ambio Special Report no. 6*. pp. 59-72.
- Roberts, D. 1979. Deposit-feeding mechanisms and resource partitioning in tropical Holothurians. *Exper. Mar. Biol. Ecol.*, 37:43-56.

- Schick, J.M., Brown, W.I., Dolliver, E.G. and Kayar, S.R. 1978. Oxygen uptake in sea anemones: Effects of expansion, contraction, and exposure to air and the limitations of diffusion. *Physiol. Zool.*, 52(1): 50-62.
- Shick, J.M., Hoffmann, R.J. and Lamb, A.N. 1979. Asexual reproduction, population structure, and genotype-environment interactions in sea anemones. *Amer. Zool.*, 19:699-713.
- Siddall, S.E. 1979. Development of ossicles in juveniles of the sea star Echinaster sentus. *Mar. Sci.*, 29(2): 278-282.
- Sloan, N.A., Clark, A.M. and Taylor, J.D. 1979. The echinoderms of Aldabra and their habitats. *Bull. Brit. Mus. (Nat. Hist.) Zool. series*, 37(2): 81-128.
- Sloan, N.A. and von Bodungen, B. 1980. Distribution and feeding of the sea cucumber Isostichopus badionotus in relation to shelter and sediment criteria of the Bermuda Platform. *Mar. Ecol. Progress Ser.* 2 (3):257-264.
- Smith, A.B. 1979. Peristomial tube feet and plates of regular echinoids. *Zoomorph.*, 94:67-80.
- Smith, A.B. 1980. The structure and arrangement of echinoid tubercles. *Phil. Trans. Roy. Soc. London (B)* 289:1-54.
- Stokes, R.B. 1979. The echinoid genus Diplodetus from the Santoian to Danian of Northern Europe. *N. Jb. Geol. Palaont. M.K.*, Heft 10:619-630.
- Stokes, R. B. 1979. An analysis of the ranges of spatangoid echinoid genera and their bearing on the Cretaceous/Tertiary boundary. pp. 78-82 in Christensen and Birkelund (eds.). *Cretaceous - Tertiary Boundary events*. University of Copenhagen, Denmark.
- Tanaka, K., Kanie Y. and Obata, I. 1979. Maastrichtian and Danian echinoids from Northwestern Madagascar. *Bull. Nat. Sci. Mus. (Japan), Series C*, 5(2): 25-50.
- Turner, R.L. and C.E. Meyer, 1980. Salinity tolerance of the brackish water echinoderm Ophiophragmus filograneus (Ophiuroidea). *Mar. Ecol. Progress Ser.* 2 (3):249-256.
- Vader, W. 1978. Associations between amphipods and echinoderms. *Astarte*, 11:123-134.
- Wagner-Merner, D.T., and Lawrence, J.M. 1980. Occurrence of fungi (Thraustochytriaceae) in the gut of Lytechinus variegatus (Lamarck) (Echinodermata: Echinoidea). *Florida Sci.*, 43: 62-64.

- Walenkamp, J. H. C. 1979. Asteroidea (Echinodermata) from the Guyana shelf. Zool. Verh., 170:1-95.
- Wilson, D.P. 1978. Some Observations on Bipinnariae and juveniles of the starfish genus Luidia. J. mar. biol. Ass. U.K., 58:467-478.
- Wolff, T. 1979. Macrofaunal utilization of plant remains in the deep sea. Sarsia, 64: 117-136.
- Yulin, Liao. 1979. A new genus of clypeasteroid sea-urchin from Huang Hai. Oceanol. et Limnol. Sinica 10(1): 70-72.
- _____. 1978. The echinoderms of the Xisha Islands, Guangdong, Province, China. II. Ophiuroidea. Stud. Mar. Sinica 12; 69-102.
- Zibrowius, H. 1978. Nouvelles observations de l'ophiure gorgonocephale Astrospartus mediterraneus sur la cote Mediterraneene de France. Bibliographie annotee et repartition. Trav. sci. Parc nation Port-Cros, 4: 157-169.

Recent publications and papers in press

SUPPLEMENT B

- Baranova, Z.I., 1978. Echinodermata in Biocenoses of the Upper Parts of the Shelf in the Possjet Bay and South-western Coast of the Sakhalin Island (the Sea of Japan). In Regularities of distribution and ecology of coastal marine biocenoses. USSR-USA Symposium on the program "Biological productivity and biochemistry of the World's ocean". Leningrad, "Nauka", p. 126-129, 257-259.
- _____. 1979. Composition and distribution of holothurians (Echinodermata, Holothuroidea) on the shelf of the North-Western Pacific. XIV Pacific Science Congress. Khabarovsk 1979. Com. F. Sec. FII a. Abstracts of papers. Moscow, p. 76-77.
- _____. New species of the holothurians of the genus Cucumaria. In press.
- _____. Two new species of starfishes from the Kuril Islands. In press.

- _____. On the holothurians of the genus Elpidia from the Arctic Basin. In press.
- Barker, M.F. 1979. Breeding and recruitment in a population of the New Zealand starfish Stichaster australis (Verrill). J. exp. mar. Biol. Ecol. 41:195-211.
- Bauer, J.C. in press. Observations on geographical variations in population density of the echinoid Diadema antillarum within the western North Atlantic. Bull. Mar. Sci. 30(2).
- Durham, J.W. 1978. Polymorphism in the Pliocene sand dollar Merriamaster (Echinoidea). J. Paleont. 52: 275-286.
- _____. 1978. A Lower Cambrian eocrinoid. J. Paleont. 52:195-199.
- _____. 1978. (With Scott R. Morgan). New sand dollars of the genera Merriamaster and Dendraster from the Purisima Formation, California. Proc. Calif. Acad. Sci. (4)41:297-305.
- Ebert, T.A. 1980. Relative growth of sea urchin jaws: an example of plastic resource allocation. Bull. Mar. Sci. 30(2): 467-474.
- Engstrom, N., in press. Reproductive cycles of Holothuria (Halodeima) floridana, H. (H.) mexicana and their hybrids (Echinodermata: Holothuroidea) in Southern Florida, USA., International Journal of Invertebrate Reproduction.
- _____. in press. Immigration as a factor in maintaining populations of the sea urchin Lytechinus variegatus (Echinodermata: Echinoidea) in seagrass beds on the Southwest coast of Puerto Rico. Studies on Neotropical Fauna and Environment.
- Fenaux, L. in press. Reproduction et croissance larvaire chez les Echinodermes. Oceanis.
- _____, Rassoulzadegan F., Cellario, C.: Elements du budget energetique des larve de l'oursin Paracentrotus lividus: excretion soluble et respiration. Resume a paraitre dans les Actes du Colloque sur les Echinoderms. Ed. Balkema, Rotterdam, 1980.
- Gruzov, E.N. 1978. Underwater hydrobiological investigations in the Antarctic. Information Bulletin of the Soviet Antarctic Expedition, No. 97, Leningrad: 124-135.
- Gruzov E.N. Sea-stars of the shelf of the Davis Sea. In press.

Kirkegaard, J.B. & D.S.M. Billett (In press):-Eunoe laetmogonensis, a new species of polynoid worm, commensal with the bathyal holothurian Laetmogone violacea, in the North East Atlantic. Steenstrupia.

O'Connor, C., et al. 1978. Environmental influences on histological changes in the reproductive cycle of four New South Wales sea urchins. Aquaculture 15:1-17.

Parsley, R.L. 1978. Thecal Morphology of the Ordovician Paracrinoïd Comarocystites (Echinodermata). J. Paleont., 52, (2):472-479.

_____. in press. Echinoderms from Middle and Upper Ordovician Rocks of Kentucky. USGS Prof. Paper.

Pavillon, J.F., L. Fenaux, in press. Un aspect de la nutrition chez le pluteus d'Arbacia lixula: impact d'un mélange de substances organiques dissoutes marquées au 14C et au 3H dans un élevage.

Rassoulzadegan F. and L. Fenaux. 1979. Grazing of Echinoderm larvae (Paracentrotus lividus and Arbacia lixula) on naturally occurring particulate matter. J. Plankton Res. 1(3).

Rice, A.L., R.G. Aldred, D.S.M. Billett & M.H. Thurston (1979):- The combined use of an epibenthic sledge and a deep-sea camera to give quantitative relevance to macro-benthos samples. Ambio Special Report 6, 59-72.

Scheibling, R.E. (In press) Abundance, spatial distribution and size structure of populations of Oreaster reticulatus (L.) (Echinodermata: Asteroidea) in seagrass beds. Mar. Biol.

_____. (In press). Abundance, spatial distribution and size structure of populations of Oreaster reticulatus (L.) (Echinodermata: Asteroidea) on sand bottoms. Mar. Biol.

_____. (In press). Carbohydrases of the pyloric caeca of Oreaster reticulatus (L.) (Echinodermata: Asteroidea). Comp. Biochem. Physiol.

_____. (In press). Homing movements of Oreaster reticulatus (L.) (Echinodermata: Asteroidea) when experimentally translocated from a sand patch habitat. Mar. Behav. Phys.

_____. 1980. Dynamics and feeding activity of high-density aggregations of Oreaster reticulatus (L.) (Echinodermata: Asteroidea) in a sand patch habitat. Mar. Ecol. Prog. Ser. 2, 321-327.

_____. (In press). The annual reproductive cycle of Oreaster

reticulatus (L.)(Echinodermata: Asteroidea) and interpopulation comparisons of reproductive capacity. J.Exp. Mar. Biol. Ecol.

_____. (in press). The microphagous feeding behavior of Or-easter reticulatus (L.)(Echinodermata: Asteroidea). Mar. Behav. Phys.

Shepard, S.H. and Bourtoerque, C.F. in press. A preliminary note on the nocturnal movement of the sea urchin Paracentrotus lividus.

Smirnov, A.V. 1979. Fauna of the Echinodermata from the Aniva Bay, the Sea of Okhotsk. XIV Pacific Science Congress. Khabarovsk 1979. Com. F., Sec. F II. a Abstracts of papers. Moscow, 1979: 98-100.

_____. 1979. Shelf ophiuroids of Eastern Sakhalin, Iona Island and western part of the Sea of Okhotsk. Materials of the IV Vsesousny colloquy on Echinoderms. Tbilisi, 1979: 168-173.

Smirnov, I.S. 1978. Rhizoids of the floating kelps of the Subantarctic waters of the Southern Hemisphere as the factor of transfer of sublittoral invertebrates. In : Materials of Third symposium on studies of shelf. Leningrad, p. 179-181.

_____. 1979. Ophiuroids (Ophiuroidea, Echinodermata) finding inside the floating rhizoids of kelps from the South-Western Atlantic. In: Materials of Fourth Allunions colloquy on Echinoderms. Tbilisi, p. 174-178.

_____. 1979. Contribution to studies on the genus Theodoria (Ophiuroidea, Echinodermata). Ibidem, p. 179-181.

_____. Symbiosis hydroid Hydractinia vallini Jäderholm and ophiuroids of family Ophiolepididae in the Antarctic waters. In press. (With S.D. Stepanjants).

_____. Fauna of floating kelps from the Subantarctic and Patagonic shelf. In press.

Soota, T.D. and Sastry, D.R.K. 1977. A note on two species of Echinaster Müller and Troschel (Echinodermata: Asteroidea) from Indian Ocean. Newsl. Zool. Surv. India, 3(4):168-169.

Stokes, R.B. 1979. The echinoid genus Diplodetus from the Santanian to Danian of Northern Europe. N. Jb. Geol. Paläont. Mh. 10:619-630.

_____. 1979. An analysis of the ranges of spatangoid genera and their bearing on the Cretaceous-Tertiary Boundary Cretaceous - Tertiary Boundary Events Symp. II. Proc.: 78-82.